



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER:
WEH70232

PAGE:
1

ADDRESS: CORRESPONDENCE TO ATTENTION OF:
**ROBERTA WAGNER
 304-558-0067**

RFQ COPY
 TYPE NAME/ADDRESS HERE

NewTech Systems, Inc.
 420 16th Street
 Dunbar, WV 25064

HEALTH AND HUMAN RESOURCES
 WELCH COMMUNITY HOSPITAL

454 MCDOWELL STREET
 WELCH, WV
 24801 304-436-8710

DATE PRINTED: 05/07/2007	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
BID OPENING DATE: 06/07/2007		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		725-40	\$92,722.40	
<p>***** PLEASE NOTE BID BOND REQUIRED WITH BID SUBMISSION. ***** MANDATORY PRE-BID ON MAY 21, 2007 @ 11:00 AM IN THE MAINTENANCE SHOP LOCATED ON STEWART STREET WHICH IS ON RT. 16, ACROSS FROM WELCH COMMUNITY HOSPITAL. *****</p> <p>NEW NURSE CALL SYSTEM (SEE ATTACHED SPECIFICATIONS)</p> <p>CONTRACTOR TO FURNISH ALL LABOR, MATERIAL, AND ANYTHING INCIDENTAL TO REPLACE THE EXISTING NURSE CALL SYSTEM AT WELCH COMMUNITY HOSPITAL LOCATED AT 454 MCDOWELL STREET, WELCH, WV 24801. (SEE ATTACHED SPECIFICATIONS.)</p> <p>MANDATORY VENDOR PREBID MEETING WILL BE HELD ON MAY 21, 2007 AT 11:00 AM IN THE MAINTENANCE SHOP AT WELCH COMMUNITY HOSPITAL. THE MAINTENANCE SHOP IS LOCATED ON STEWART STREET WHICH IS ON RT. 16 ACROSS FROM WELCH COMMUNITY HOSPITAL. FAILURE TO ATTEND THIS MANDATORY PREBID CONFERENCE WILL RESULT IN BID REJECTION. ONE INDIVIDUAL CANNOT REPRESENT MORE THAN ONE VENDOR.</p> <p>INQUIRIES WRITTEN QUESTIONS SHALL BE ACCEPTED THROUGH CLOSE OF</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Michael A. Bryant* TELEPHONE: 304-766-0000 DATE: 6/6/2007
 TITLE: Manager FEIN: 20-5736303 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this contract is automatically null and void, and is terminated without further order.
14. **HIPAA Business Associate Addendum** - The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

SIGNED BID TO:

Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130



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SHIP TO

**HEALTH AND HUMAN RESOURCES
 WELCH COMMUNITY HOSPITAL**

**454 MCDOWELL STREET
 WELCH, WV
 24801 304-436-8710**

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
05/07/2007				

BID OPENING DATE: **06/07/2007** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>BUSINESS ON MAY 22, 2007. QUESTIONS MAY BE SENT VIA USPS, FAX, COURIER, OR E-MAIL. IN ORDER TO ASSURE NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTIONS WILL BE ANSWERED ORALLY. IF POSSIBLE, E-MAIL QUESTIONS ARE PREFERRED. ADDRESS INQUIRIES TO:</p> <p>ROBERTA WAGNER DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25311</p> <p>FAX: 304-558-4115 E-MAIL: RWAGNER@WVADMIN.GOV</p> <p>THE MODEL/BRAND/SPECIFICATIONS NAMED HEREIN ESTABLISH THE ACCEPTABLE LEVEL OF QUALITY ONLY AND ARE NOT INTENDED TO REFLECT A PREFERENCE OR FAVOR ANY PARTICULAR BRAND OR VENDOR. VENDORS WHO ARE BIDDING ALTERNATES SHOULD SO STATE AND INCLUDE PERTINENT LITERATURE AND SPECIFICATIONS. FAILURE TO PROVIDE INFORMATION FOR ANY ALTERNATES MAY BE GROUNDS FOR REJECTION OF THE BID. THE STATE RESERVES THE RIGHT TO WAIVE MINOR IRREGULARITIES IN BIDS OR SPECIFICATIONS IN ACCORDANCE WITH SECTION 148-1-4(F) OF THE WEST VIRGINIA LEGISLATIVE RULES AND REGULATIONS. EXHIBIT 5</p> <p>NOTICE TO PROCEED: THIS CONTRACT IS TO BE PERFORMED WITHIN 120 CALENDAR DAYS AFTER THE NOTICE TO PROCEED IS RECEIVED. A "NOTICE TO PROCEED" LETTER WILL BE ISSUED INDICATING APPROVAL OF THE CONTRACTOR'S FINAL</p>						

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SUBJECT

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<p>DRAFT OF THE SHOP DRAWINGS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE MATERIALS OR WORKMANSHIP SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HERE IN.</p> <p>WAGE RATES: THE CONTRACTOR OR SUBCONTRACTOR SHALL PAY THE HIGHER OF THE U.S. DEPARTMENT OF LABOR MINIMUM WAGE RATES AS ESTABLISHED FOR MCDOWELL COUNTY, PURSUANT TO WEST VIRGINIA CODE 21-5A, ET, SEQ. (PREVAILING WAGE RATES APPLY TO THIS PROJECT)</p> <p>ARBITRATION: ANY REFERENCES MADE TO ARBITRATION OR INTEREST FOR PAYMENTS DUE (EXCEPT FOR ANY INTEREST REQUIRED BY STATE LAW) CONTAINED IN THIS CONTRACT OR IN ANY AMERICAN INSTITUTE OF ARCHITECTS DOCUMENTS PERTAINING TO THIS CONTRACT ARE HEREBY DELETED.</p> <p>WORKERS' COMPENSATION: VENDOR IS REQUIRED TO PROVIDE A CERTIFICATE FROM WORKERS' COMPENSATION IF SUCCESSFUL.</p> <p>ALL OF THE ITEMS CHECKED BELOW WILL BE A REQUIREMENT OF THIS CONTRACT:</p> <p>(XX) INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF COMMERCIAL GENERAL LIABILITY INSURANCE PRIOR TO ISSUANCE OF CONTRACT. UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS, THE MINIMUM AMOUNT OF INSURANCE COVERAGE REQUIRED IS \$250,000.</p> <p>() BUILDERS RISK INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF BUILDERS RISK - ALL RISK INSURANCE IN AN AMOUNT EQUAL TO 100% OF THE AMOUNT OF THE CONTRACT.</p>						

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<p>(XX) BONDS: FIVE PERCENT (5%) OF THE TOTAL AMOUNT OF THE BID PAYABLE TO THE STATE OF WEST VIRGINIA, SHALL BE SUBMITTED WITH EACH BID AS A BID BOND. THE SUCCESSFUL BIDDER SHALL ALSO FURNISH A PERFORMANCE BOND AND LABOR/MATERIAL BOND FOR 100% OF THE AMOUNT OF THE CONTRACT. BONDS MAY BE PROVIDED IN THE FORM OF A CERTIFIED CHECK, IRREVOCABLE LETTER OF CREDIT, OR BOND FURNISHED BY A SOLVENT SURETY COMPANY AUTHORIZED TO DO BUSINESS IN THE STATE OF WEST VIRGINIA. A LETTER OF CREDIT SUBMITTED IN LIEU OF A PERFORMANCE AND LABOR & MATERIAL BOND WILL ONLY BE ALLOWED FOR PROJECTS UNDER \$100,000. PERSONAL OR BUSINESS CHECKS ARE NOT ACCEPTABLE IN LIEU OF THE 5% BID BOND, PERFORMANCE BOND, OR LABOR AND MATERIAL BOND.</p> <p>() MAINTENANCE BOND: A TWO (2) YEAR MAINTENANCE BOND COVERING THE ROOFING SYSTEM WILL BE A REQUIREMENT OF THE SUCCESSFUL VENDOR.</p> <p>REV. 11/00</p> <p>EXHIBIT 7</p> <p>DOMESTIC ALUMINUM, GLASS & STEEL IN PUBLIC WORKS PROJECTS</p> <p>IN ACCORDANCE WITH WEST VIRGINIA CODE 5-19-1 ET., SEQ., EVERY CONTRACT FOR CONSTRUCTION, RECONSTRUCTION, ALTERATION, REPAIR, IMPROVEMENT OR MAINTENANCE OF PUBLIC WORKS, WHERE THE COST IS MORE THAN \$50,000 AND, IN THE CASE OF STEEL ONLY, WHERE THE COST OF STEEL IS MORE THAN \$50,000 OR WHERE MORE THAN 10,000 POUNDS OF STEEL ARE REQUIRED, THE STATE WILL ACCEPT ONLY ALUMINUM GLASS, OR STEEL PRODUCTS PRODUCED IN THE UNITED STATES</p>						

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<p>IN ADDITION, ITEMS OF MACHINERY OR EQUIPMENT PURCHASED FOR USE AT THE SITE OF PUBLIC WORKS SHALL BE MADE OF DOMESTIC ALUMINUM, GLASS OR STEEL, UNLESS THE COST OF THE PRODUCT IS LESS THAN \$50,000 OR LESS THAN 10,000 POUNDS OF STEEL ARE USED IN PUBLIC WORKS PROJECTS.</p> <p>FOREIGN MADE ALUMINUM, GLASS OR STEEL PRODUCTS MAY BE ACCEPTED ONLY IF THE COST OF DOMESTIC PRODUCTS IS FOUND TO BE UNREASONABLE. SUCH COST IS UNREASONABLE IF IT IS 20% OR MORE HIGHER THAN THE BID PRICE FOR FOREIGN MADE PRODUCTS. IF THE DOMESTIC ALUMINUM, GLASS OR STEEL PRODUCTS TO BE SUPPLIED OR PRODUCED IN A "SUBSTANTIAL LABOR SURPLUS AREA", AS DEFINED BY THE UNITED STATES DEPARTMENT OF LABOR, FOREIGN PRODUCTS MAY BE SUPPLIED ONLY IF DOMESTIC PRODUCTS ARE 30% OR MORE HIGHER IN PRICE THAN THE FOREIGN MADE PRODUCTS.</p> <p>IF, PRIOR TO THE AWARD OF A CONTRACT UNDER THE ABOVE PROVISIONS, THE SPENDING OFFICER OF THE SPENDING UNIT DETERMINES THAT THERE EXISTS A BID FOR LIKE FOREIGN ALUMINUM, GLASS OR STEEL THAT IS REASONABLE AND LOWER THAN THE LOWEST BID DOMESTIC PRODUCTS, THE SPENDING OFFICE MAY REQUEST, IN WRITING, A REEVALUATION AND REDUCTION IN THE LOWEST BID FOR SUCH DOMESTIC PRODUCTS ALL VENDORS MUST INDICATE IN THEIR BID IF THEY ARE SUPPLYING FOREIGN ALUMINUM, GLASS OR STEEL.</p> <p>REV. 3/88</p> <p>EXHIBIT 9</p> <p>NOTICE FOR ISSUANCE & ACKNOWLEDGEMENT OF CONSTRUCTION PROJECT ADDENDA</p> <p>THE ARCHITECT/ENGINEER AND/OR AGENCY SHALL BE REQUIRED</p>						

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<p>TO ABIDE BY THE FOLLOWING SCHEDULE IN ISSUING CONSTRUCTION PROJECT ADDENDA FOR STATE AGENCIES:</p> <p>(1) THE ARCHITECT/ENGINEER SHALL PREPARE THE ADDENDUM AND A LIST OF ALL PARTIES THAT HAVE PROCURED DRAWINGS AND SPECIFICATIONS FOR THE PROJECT. THE ADDENDUM AND LIST SHALL BE FORWARDED TO THE BUYER IN THE STATE PURCHASING DIVISION. THE ARCHITECT/ENGINEER SHALL ALSO SEND A COPY OF THE ADDENDUM TO THE STATE AGENCY FOR WHICH THE CONTRACT IS ISSUED.</p> <p>(2) THE BUYER SHALL SEND THE ADDENDUM TO ALL INTERESTED PARTIES AND, IF NECESSARY, EXTEND THE BID OPENING DATE. ANY ADDENDUM SHOULD BE RECEIVED BY THE BUYER WITHIN FOURTEEN (14) DAYS PRIOR TO THE BID OPENING DATE.</p> <p>(3) ALL ADDENDA SHOULD BE FORMALLY ACKNOWLEDGED BY ALL BIDDERS AND SUBMITTED TO THE STATE PURCHASING DIVISION. THE SAME RULES AND REGULATIONS THAT APPLY TO THE ORIGINAL BIDDING DOCUMENT SHALL ALSO APPLY TO AN ADDENDUM DOCUMENT. THE ONLY EXCEPTION MAY BE FOR AN ADDENDUM THAT IS ISSUED FOR THE SOLE PURPOSE OF CHANGING A BID OPENING TIME AND/OR DATE.</p> <p>REV. 11/96</p> <p>EXHIBIT 10</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p>						

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ADDENDUM NOS.:						
NO. 1		Yes				
NO. 2						
NO. 3						
NO. 4						
NO. 5						
I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.						
<i>Michael A. Bryant</i>SIGNATURE						
NewTech Systems, Inc.....COMPANY						
6/6/2007.....DATE						
REV. 11/96						
CONTRACTORS LICENSE						
WEST VIRGINIA STATE CODE 21-11-2 REQUIRES THAT ALL PERSONS DESIRING TO PERFORM CONTRACTING WORK IN THIS STATE MUST BE LICENSED. THE WEST VIRGINIA CONTRACTORS LICENSING BOARD IS EMPOWERED TO ISSUE THE CONTRACTORS LICENSE. APPLICATIONS FOR A CONTRACTORS LICENSE MAY BE MADE BY CONTACTING THE WEST VIRGINIA DIVISION OF LABOR CAPITOL COMPLEX, BUILDING 3, ROOM 319, CHARLESTON, WV 25305. TELEPHONE: (304) 558-7890.						

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<p>WEST VIRGINIA STATE CODE 21-11-11 REQUIRES ANY PROSPECTIVE BIDDER TO INCLUDE THE CONTRACTORS LICENSE NUMBER ON THEIR BID.</p> <p>BIDDER TO COMPLETE:</p> <p>CONTRACTORS NAME: NewTech Systems, Inc.</p> <p>CONTRACTORS LICENSE NO.: WV042038</p> <p>THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH A COPY OF THEIR CONTRACTORS LICENSE PRIOR TO ISSUANCE OF A PURCHASE ORDER/CONTRACT</p> <p>APPLICABLE LAW</p> <p>THE WEST VIRGINIA STATE CODE, PURCHASING DIVISION RULE AND REGULATIONS, AND THE INFORMATION PROVIDED IN THE "REQUEST FOR QUOTATION" ISSUED BY THE PURCHASING DIVISION IS THE SOLE AUTHORITY GOVERNING THIS PROCUREMENT.</p> <p>ANY INFORMATION PROVIDED IN SPECIFICATION MANUALS, OR ANY OTHER SOURCE, VERBAL OR WRITTEN, WHICH CONTRADICTS OR ALTERS THE INFORMATION PROVIDED FROM THE SOURCES AS DESCRIBED IN THE ABOVE PARAGRAPH IS VOID AND OF NO EFFECT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>REV. 1/2005</p>						

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<p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER:-----ROBERTA WAGNER/FILE 22-----</p> <p>REQ. NO.:-----WEH70232-----</p> <p>BID OPENING DATE:-----JUNE 7, 2007-----</p> <p>BID OPENING TIME:-----1:30 PM-----</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:</p> <p>-----304-766-0003-----</p> <p>PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE:</p> <p>-----Mike Bryant-----</p>						

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STATE OF WEST VIRGINIA
Purchasing Division

028

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: NewTech Systems, Inc.

Authorized Signature: Michael A. Bryant

Date: 6/6/2007

AGREEMENT ADDENDUM

031

In the event of conflict between this addendum and the agreement, this addendum shall control:

1. **ARBITRATION** - Any references to arbitration contained in the agreement are hereby deleted. Disputes arising out of the agreement shall be presented to the West Virginia Court of Claims.
2. **HOLD HARMLESS** - Any clause requiring the Agency to indemnify or hold harmless any party is hereby deleted in its entirety.
3. **GOVERNING LAW** - The agreement shall be governed by the laws of the State of West Virginia. This provision replaces any references to any other State's governing law.
4. **TAXES** - Provisions in the agreement requiring the Agency to pay taxes are deleted. As a State entity, the Agency is exempt from Federal, State, and local taxes and will not pay taxes for any Vendor including individuals, nor will the Agency file any tax returns or reports on behalf of Vendor or any other party.
5. **PAYMENT** - Any references to prepayment are deleted. Payment will be in arrears.
6. **INTEREST** - Should the agreement include a provision for interest on late payments, the Agency agrees to pay the maximum legal rate under West Virginia law. All other references to interest or late charges are deleted.
7. **RECOUPMENT** - Any language in the agreement waiving the Agency's right to set-off, counterclaim, recoupment, or other defense is hereby deleted.
8. **FISCAL YEAR FUNDING** - Service performed under the agreement may be continued in succeeding fiscal years for the term of the agreement, contingent upon funds being appropriated by the Legislature or otherwise being available for this service. In the event funds are not appropriated or otherwise available for this service, the agreement shall terminate without penalty on June 30. After that date, the agreement becomes of no effect and is null and void. However, the Agency agrees to use its best efforts to have the amounts contemplated under the agreement included in its budget. Non-appropriation or non-funding shall not be considered an event of default.
9. **STATUTE OF LIMITATION** - Any clauses limiting the time in which the Agency may bring suit against the Vendor, lessor, individual, or any other party are deleted.
10. **SIMILAR SERVICES** - Any provisions limiting the Agency's right to obtain similar services or equipment in the event of default or non-funding during the term of the agreement are hereby deleted.
11. **ATTORNEY FEES** - The Agency recognizes an obligation to pay attorney's fees or costs only when assessed by a court of competent jurisdiction. Any other provision is invalid and considered null and void.
12. **ASSIGNMENT** - Notwithstanding any clause to the contrary, the Agency reserves the right to assign the agreement to another State of West Virginia agency, board or commission upon thirty (30) days written notice to the Vendor and Vendor shall obtain the written consent of Agency prior to assigning the agreement.
13. **LIMITATION OF LIABILITY** - The Agency, as a State entity, cannot agree to assume the potential liability of a Vendor. Accordingly, any provision limiting the Vendor's liability for direct damages or limiting the Vendor's liability under a warranty to a certain dollar amount or to the amount of the agreement is hereby deleted. In addition, any limitation is null and void to the extent that it precludes any action for injury to persons or for damages to personal property.
14. **RIGHT TO TERMINATE** - Agency shall have the right to terminate the agreement upon thirty (30) days written notice to Vendor.
15. **TERMINATION CHARGES** - Any provision requiring the Agency to pay a fixed amount or liquidated damages upon termination of the agreement is hereby deleted. The Agency may only agree to reimburse a Vendor for actual costs incurred or losses sustained during the current fiscal year due to wrongful termination by the Agency prior to the end of any current agreement term.
16. **RENEWAL** - Any reference to automatic renewal is hereby deleted. The agreement may be renewed only upon mutual written agreement of the parties.
17. **INSURANCE** - Any provision requiring the Agency to insure equipment or property of any kind and name the Vendor as beneficiary or as an additional insured is hereby deleted.
18. **RIGHT TO NOTICE** - Any provision for repossession of equipment without notice is hereby deleted. However, the Agency does recognize a right of repossession with notice.
19. **ACCELERATION** - Any reference to acceleration of payments in the event of default or non-funding is hereby deleted.
20. **AMENDMENTS** - All amendments, modifications, alterations or changes to the agreement shall be in writing and signed by both parties. No amendment, modification, alteration or change may be made to this addendum without the express written approval of the Purchasing Division and the Attorney General.

ACCEPTED BY:
STATE OF WEST VIRGINIA

VENDOR

Spending Unit: _____

Company Name: NewTech Systems, Inc.

Signed: _____

Signed: Michael A. Bryant

Title: _____

Title: Manager

Date: _____

Date: 6/6/2007



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
 WEH70232

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
 ROBERTA WAGNER
 304-558-0067

VENDOR

ANDREW RAMSEY
 NEW TECH SYSTEMS
 420 16TH STREET
 DUNBAR WV 25064

SHIP TO

HEALTH AND HUMAN RESOURCES
 WELCH COMMUNITY HOSPITAL

 454 MCDOWELL STREET
 WELCH, WV
 24801 304-436-8710

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
05/23/2007				
BID OPENING DATE: 06/07/2007		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 1 1. TO PROVIDE FLOOR PLANS, PER THE ATTACHED. 2. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID. END OF ADDENDUM NO. 1		
0001	1	EA		725-40		
				NEW NURSE CALL SYSTEM (SEE ATTACHED SPECIFICATIONS)		
***** THIS IS THE END OF RFQ WEH70232 *****						TOTAL: \$92,722.40

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE		TELEPHONE		DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE		

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

PURCHASING CONTINUATION SHEET

Buyer: RW-22	Page 5	Req. or P.O. No.: WEH70232
Spending Unit:		

Vendor:

Requisition No.: WEH70232

ADDENDUM ACKNOWLEDGEMENT

I hereby acknowledge receipt of the following checked addendum(s) and have made the necessary revisions to my proposal, plans and/or specifications, etc.

Addendum No.'s:

- No. 1 Yes
- No. 2 _____
- No. 3 _____
- No. 4 _____
- No. 5 _____

I understand that failure to confirm the receipt of the addendum(s) may be cause for rejection of bids.



 Signature

NewTech Systems, Inc.
 Company

6/6/2007
 Date



420 16th Street • PO Box 310
Dunbar, WV 25064
Phone 304-766-0000 Fax 304-766-0003

June 6, 2007

WV Purchasing Division
2019 Washington St. E
Charleston, WV 25305

RE: RFQ# WEH70232

To Whom It May Concern:

NewTech Systems, Inc. is submitting as its bid, equipment manufactured by Dukane Corporation as an equal to the equipment listed in the bidding specifications. All pertinent literature supporting this equipment is attached as part of our bid.



420 16th Street
 Dunbar, WV 25064
 office: 304-766-0000
 fax: 304-766-0003
 www.newtechwv.com

To: Welch Hospital
 Attn:

Quote ID: AKDYQ1063-01
 Date: 06/04/07
 Terms: NET 30
 Sales Tax: Not Included
 FOB: Destination
 Expires: 60 Days

Phone:

Fax:

Project: Welch Hospital Nurse Call Replacement

Qty	Manufacturer	Part Number	Description
<u>Welch Hospital Nurse Call</u>			
1	Dukane	8A245A	Back Box For Central Equipment - Procure 6000
1	Dukane	110-3621	Central Control Equipment Card Cage
1	Dukane	110-3622	Central Control Equipment Power Converter PCB; One Required Per Card Cage
1	Dukane	110-3620	Surface Door/Cover - One Required For Each Surface Mounted Central Control Equipment Cabinet 8A245A
4	Dukane	145-184	Backbox For 110-2170A And 110-2185B Power Supplies And 110-1335 Flasher Chassis Assembly
8	Dukane	110-2185B	Power Supply Module, 12Vdc - 3.2Amp - Single Power Supply Powers Up To 32 Patient, Staff Or Duty Stations And Couplers Or Up To 32 Corridor And Zone Lights; Feature Packages Will Reduce The Number Of Stations Per Power Supply
4	Dukane	110-2190	Flush Door For 145-184 Backbox
4	Dukane	110-2191	Surface Door For 145-184 Backbox
1	Dukane	110-3613D	File Server PCB - One Required Per System, Also Provides Interface To Esm And 18A/B600
6	Dukane	110-3616A	Master Interface Unit PCB (Miu) - One Required For Each Base Master Station -Requires 110-3284 Receptacle (Order Separately)
4	Dukane	110-3614A	Zone Interface Unit PCB (Ziu) - One Required Per 32 Remote Audio Stations And/Or Couplers
4	Dukane	110-3650	15-Watt Zone Amplifier/Vor Unit - Optional Use In Place Of 110-2250A, Required For Unrestricted Audio Area Page Or All-Call Page, Max 6 Per Cabinet
3	Dukane	18B600	Remote Annunciator Display - Gray Trim - Displays Alpha-Numeric Room And Bed Numbers And Duty Areas On A 4-Lag Basis, Programmable To Display Any Or All 16 Call Priorities; Requires Separate 110-2185B Power Supply And "D" Version File Server Firmware
6	Dukane	110-3284	Single Gang Wall Plate/Receptacle For Procure 2000 Or 6000 Base Master Station
6	Dukane	4A3610B	Base Master Station - Desk Unit, Requires 110-3284 Wall Plate And 110-3616A PCB Ordered Separately
6	Dukane	110-3284	Single Gang Wall Plate/Receptacle For Procure 2000 Or 6000 Base Master Station
60	Dukane	4A2486B	Dual Patient Station - 3 Gang - Gray Chassis - (2) Pillow Speaker Receptacles; If Bed Interface Is Desired, Use With (2) 37-Pin Receptacles By Others Or (2) 9A2137A Dual 37-Pin Receptacles Sold Separately And (2) 438-537B Connecting Cables
50	Dukane	4A2481B	Single Patient Station - 3 Gang - Gray Chassis - (1) Pillow Speaker Receptacle; If Bed Interface Is Desired, Use With (1) 37-Pin Receptacle By Others Or (1) 9A2137A Dual 37-Pin Receptacle Sold Separately And (1) 438-537B Connecting Cable
9	Dukane	4A2495B	Staff/Duty Station - 3 Gang - Gray Chassis
117	Dukane	9A2105	Lavatory Station - Pull Cord - Beige Trim
110	Dukane	18A524	Corridor Door / Zone Light 4 Lamp, 24V - White / Red / White / Red - Color Can Be Changed To Amber Or Green As Required - Color Caps Sold Separately
7	Dukane	18B433	Corridor Light - Gray Trim - 3 Lamp With Coupler For Lavatory, Code Blue, And Staff Emergency Applications - Includes Red, Amber, And Green Color Caps And Coupler PCB

Qty	Manufacturer	Part Number	Description
170	Dukane	7A2016	Pillow Speaker - Call Led, Privacy Led, Tv Control, Light Switches
11	Dukane	438-934	3 Pin Data Connector Kit - (12) 200-1334 Plugs Per Kit
11	Dukane	438-932	3 Pin Intercom Audio Connector Kit - (12) 200-1332 Plugs Per Kit
11	Dukane	438-936	22 Pin Room Station W Or W/O Presence Connector Kit - (12) 200-1336 Plugs Per Kit
1	Dukane	438-931	6 Pin Aux / Zone Light Connector Kit - (12) 200-1331 Plugs Per Kit
11	Dukane	438-930	14 Pin Tv/Low Voltage Control And Presence Connector Kit - (12) 200-1330 Plugs Per Kit
11	Dukane	438-932	3 Pin Intercom Audio Connector Kit - (12) 200-1332 Plugs Per Kit
10	Dukane	438-937A	6 Pin Emergency Station Connector Kit - (12) 200-1337 Plugs Per Kit - Includes One Lead Per Kit To Allow Adding Remote Call To Procure Emergency Stations
11	Dukane	438-134	Color Filter Red Kit (10 Per Kit)
11	Dukane	438-135	Color Filter Amber Kit (10 Per Kit)
11	Dukane	438-136	Color Filter Green Kit (10 Per Kit)
1	NTS	lot	wire & cable for installation
1	NTS	LBR	Installation, Programming, Testing, & Staff Training
			Grand Total: \$92,722.40

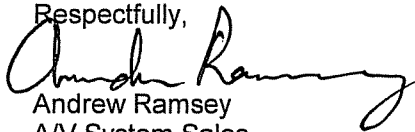
Accepted By _____

Title _____

Date _____

Please call me if I can be of further assistance.

Respectfully,



Andrew Ramsey
A/V System Sales
WV Lic# WV042038

Agency _____
REQ.P.O# WEH70232

BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, NEWTECH SYSTEMS, INC.
of Ashland, Kentucky, as Principal, and OHIO CASUALTY INSURANCE
COMPANY of Fairfield, Ohio, a corporation organized and existing under the laws of the State of OHIO
with its principal office in the City of Fairfield, as Surety, are held and firmly bound unto the State
of West Virginia; as Obligee, in the penal sum of 5% of total bid (\$ 5% of bid) for the payment of which,
well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the
Department of Administration a certain bid or proposal, attached hereto and made a part hereof, to enter into a contract in writing for
NEW NURSE CALL SYSTEM, REPLACE THE EXISTING NURSE CALL SYSTEM AT WELCH COMMUNITY
HOSPITAL

NOW THEREFORE,

(a) If said bid shall be rejected, or
(b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached
hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the
agreement created by the acceptance of said bid, then this obligation shall be null and void, otherwise this obligation shall remain in full
force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event,
exceed the penal amount of this obligation as herein stated.

The Surety, for the value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no
way impaired or affected by any extension of the time within which the Obligee may accept such bid, and said Surety does hereby
waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations
have caused their corporate seals to be affixed hereunto and these presents to be signed by their proper officers, this
7th day of June, 2007.

Principal Corporate Seal

NEWTECH SYSTEMS, INC.
(Name of Principal)

By Perry J. Madch
(Must be President or
Vice President)

PRESIDENT
(Title)

Surety Corporate Seal

OHIO CASUALTY INSURANCE COMPANY
(Name of Surety)

Thomas H. Voeltz
Attorney-in-Fact
(THOMAS H. VOELTZ)

IMPORTANT - Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised corporate seals must be affixed, a power of attorney must be attached.

Agency _____
REQ.P.O# WEH70232

BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, NEWTECH SYSTEMS, INC.
of Ashland, Kentucky, as Principal, and OHIO CASUALTY INSURANCE
COMPANY of Fairfield, Ohio, a corporation organized and existing under the laws of the State of OHIO
with its principal office in the City of Fairfield, as Surety, are held and firmly bound unto the State
of West Virginia, as Obligee, in the penal sum of 5% of total bid (\$ 5% of bid) for the payment of which,
well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the
Department of Administration a certain bid or proposal, attached hereto and made a part hereof, to enter into a contract in writing for
NEW NURSE CALL SYSTEM, REPLACE THE EXISTING NURSE CALL SYSTEM AT WELCH COMMUNITY
HOSPITAL

NOW THEREFORE,

- (a) If said bid shall be rejected, or
- (b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the agreement created by the acceptance of said bid, then this obligation shall be null and void, otherwise this obligation shall remain in full force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

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IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be affixed hereunto and these presents to be signed by their proper officers, this
7th day of June, 2007.

Principal Corporate Seal

NEWTECH SYSTEMS, INC.

(Name of Principal)

By Perry J. Madder
(Must be President or Vice President)

PRESIDENT

(Title)

Surety Corporate Seal

OHIO CASUALTY INSURANCE COMPANY

(Name of Surety)

Thomas H. Voeltz

Attorney-in-Fact
(THOMAS H. VOELTZ)

IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised corporate seals must be affixed, a power of attorney must be attached.

CERTIFIED COPY OF POWER OF ATTORNEY
THE OHIO CASUALTY INSURANCE COMPANY
WEST AMERICAN INSURANCE COMPANY

No. 35-352

Know All Men by These Presents: That THE OHIO CASUALTY INSURANCE COMPANY, an Ohio Corporation, and WEST AMERICAN INSURANCE COMPANY, an Indiana Corporation, in pursuance of authority granted by Article VI, Section 7 of the By-Laws of The Ohio Casualty Insurance Company and Article VI, Section 1 of West American Insurance Company, do hereby nominate, constitute and appoint: Thomas C. Phipps, Thomas H. Voeltz or J. Michael Wellman of Ashland, Kentucky its true and lawful agent (s) and attorney (s)-in-fact, to make, execute, seal and deliver for and on its behalf as surety, and as its act and deed any and all BONDS, UNDERTAKINGS, and RECOGNIZANCES, not exceeding in any single instance FIVE MILLION (\$5,000,000.00) DOLLARS, excluding, however, any bond(s) or undertaking(s) guaranteeing the payment of notes and interest thereon

And the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the Companies at their administrative offices in Hamilton, Ohio, in their own proper persons. The authority granted hereunder supersedes any previous authority heretofore granted the above named attorney(s)-in-fact.

In WITNESS WHEREOF, the undersigned officer of the said The Ohio Casualty Insurance Company and West American Insurance Company has hereunto subscribed his name and affixed the Corporate Seal of each Company this 28th day of November, 2000.



Sam Lawrence

Sam Lawrence, Assistant Secretary

STATE OF OHIO,
COUNTY OF BUTLER

On this 28th day of November, 2000 before the subscriber, a Notary Public of the State of Ohio, in and for the County of Butler, duly commissioned and qualified, came Sam Lawrence, Assistant Secretary of THE OHIO CASUALTY INSURANCE COMPANY and WEST AMERICAN INSURANCE COMPANY, to me personally known to be the individual and officer described in, and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn deposed and saith, that he is the officer of the Companies aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and the said Corporate Seals and his signature as officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal at the City of Hamilton, State of Ohio, the day and year first above written.



Cheryl S. Gregory

Notary Public in and for County of Butler, State of Ohio
My Commission expires August 6, 2002.

This power of attorney is granted under and by authority of Article VI, Section 7 of the By-Laws of The Ohio Casualty Insurance Company and Article VI, Section 1 of West American Insurance Company, extracts from which read:

Article VI, Section 7. APPOINTMENT OF ATTORNEYS-IN-FACT, ETC. "The chairman of the board, the president, any vice-president, the secretary or any assistant secretary of each of these Companies shall be and is hereby vested with full power and authority to appoint attorneys-in-fact for the purpose of signing the name of the Companies as surety to, and to execute, attach the corporate seal, acknowledge and deliver any and all bonds, recognizances, stipulations, undertakings or other instruments of suretyship and policies of insurance to be given in favor of any individual, firm, corporation, or the official representative thereof, or to any county or state, or any official board or boards of county or state, or the United States of America, or to any other political subdivision."

Article VI, Section 1. APPOINTMENT OF RESIDENT OFFICERS. "The Chairman of the Board, the President, any Vice President, a Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint attorneys in fact for the purpose of signing the name of the corporation as surety or guarantor, and to execute, attach the corporate seal, acknowledge and deliver any and all bonds, recognizances, stipulations, undertakings or other instruments of surety-ship or guarantee, and policies of insurance to be given in favor of an individual, firm, corporation, or the official representative thereof, or to any county or state, or any official board or boards of any county or state, or the United States of America, or to any other political subdivision."

This instrument is signed and sealed by facsimile as authorized by the following Resolution adopted by the respective directors of the Companies (adopted May 27, 1970-The Ohio Casualty Insurance Company; adopted April 24, 1980-West American Insurance Company):

"RESOLVED that the signature of any officer of the Company authorized by the By-Laws to appoint attorneys in fact, the signature of the Secretary or any Assistant Secretary certifying to the correctness of any copy of a power of attorney and the seal of the Company may be affixed by facsimile to any power of attorney or copy thereof issued on behalf of the Company. Such signatures and seal are hereby adopted by the Company as original signatures and seal, to be valid and binding upon the Company with the same force and effect as though manually affixed."

CERTIFICATE

I, the undersigned Assistant Secretary of The Ohio Casualty Insurance Company and West American Insurance Company, do hereby certify that the foregoing power of attorney, the referenced By-Laws of the Companies and the above Resolution of their Boards of Directors are true and correct copies and are in full force and effect on this date.

IN WITNESS WHEREOF, I have hereunto set my hand and the seals of the Companies this 7th day of June 2007



Mark E. Schmidt

Assistant Secretary

ACORD CERTIFICATE OF LIABILITY INSURANCE

OP ID D1
NEWTE-1

DATE (MM/DD/YYYY)
06/04/07

PRODUCER Putnam Agency PO Box 991 Ashland KY 41105 Phone: 606-329-2200 Fax: 606-325-7787	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.	
	INSURERS AFFORDING COVERAGE	NAIC #
INSURED Newtech Systems, Inc. 420 16th Street Dunbar WV	INSURER A: Brick Street Insurance	
	INSURER B: St. Paul Travelers	25674
	INSURER C:	
	INSURER D:	
	INSURER E:	

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

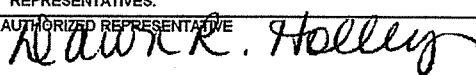
INSR ADD'L LTR	INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
B		GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Empl Benefits GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC	CO5614B825	11/30/06	11/30/07	EACH OCCURRENCE \$ 1000000
		DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300000 MED EXP (Any one person) \$ 5000 PERSONAL & ADV INJURY \$ 1000000 GENERAL AGGREGATE \$ 2000000 PRODUCTS - COMP/OP AGG \$ 2000000				
B		AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS	8105614B825	11/30/06	11/30/07	COMBINED SINGLE LIMIT (Ea accident) \$ 1000000
		BODILY INJURY (Per person) \$				
		BODILY INJURY (Per accident) \$				
		PROPERTY DAMAGE (Per accident) \$				
		GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT \$
		OTHER THAN AUTO ONLY: EA ACC \$				
		AGG \$				
B		EXCESS/UMBRELLA LIABILITY <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> DEDUCTIBLE <input checked="" type="checkbox"/> RETENTION \$	CUP5614B850	11/30/06	11/30/07	EACH OCCURRENCE \$ 2000000
		AGGREGATE \$				
A		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below	WC10202584-02	01/01/07	01/01/08	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OFF-ER
		E.L. EACH ACCIDENT \$ 500000				
		E.L. DISEASE - EA EMPLOYEE \$ 500000				
		OTHER				E.L. DISEASE - POLICY LIMIT \$ 500000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

RFO Number: **WEH70232**
Health & Human Resources
Welch Community Hospital
454 McDowell Street
Welch, WV 24801

CERTIFICATE HOLDER

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LOW VOLTAGE SYSTEMS

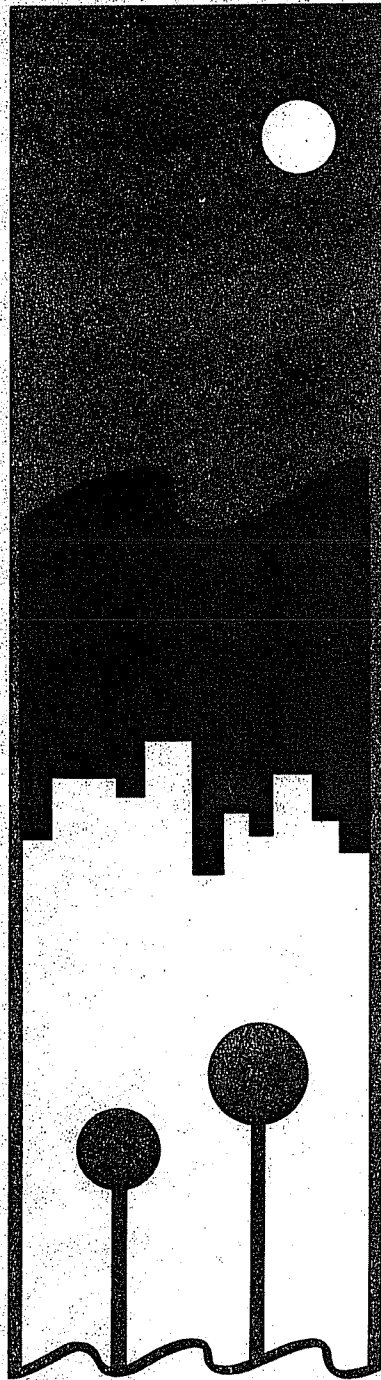
NEWTECH SYSTEMS INC
PO BOX 2378
ASHLAND, KY 41105

Date Issued

Expiration Date

FEBRUARY 26, 2007

FEBRUARY 26, 2008



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Overview

Base Console

The 4A3610B Base Console provides call-answering and management functionality for one or more nursing units, depending on system coverage configuration. The 4A3610B provides alphanumeric information display of calls, reminders, location, and configuration menus.

Supplemental Four-Line Display

The GE Model 438-815A Supplemental Four-Line Display has the necessary components to mount and connect an optional incoming-call display module to any ProCare 6000 base console.

Remote Annunciator Panel

The GE Model 18A/B600 Remote Annunciator Panel is normally located at the nurses station or other centralized locations such as PBX to visually display calls placed from patient stations and/or emergency stations in the ProCare 6000. The calls are individually identified, on a selected basis, by room/bed number, call priority, area, and/or alias name.

Standard Features

Base Console

- Compact design preserved desk space
- Buttons are clearly labeled to simplify operation
- Easy-to-read alphanumeric LCD
- Eight programmable keys for frequently dialed numbers
- Three levels of staff reminders and presence
- Sensitive speaker and microphone provide crystal clear audio

Supplemental 4-line Display

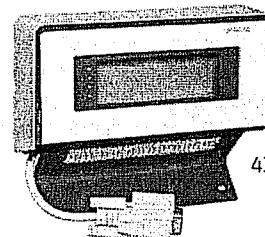
- Mounts Easily to Base Console
- Displays up to 4 Calls
- Displays Room and Priority
- Easy to Read
- Color and Design Matches Base Console
- Non-Glare Surface
- ESD Protected
- Separate Plug-In Power Unit

Remote Annunciator Panel

- Four-Line Screen Configurable for Display of 2 or 4 Calls
- Choice of 5 Display Layouts
- Full Alphanumeric Room Number
- Assignable .Alias. Room Name
- Choice of 16 Call Priorities
- Configurable Tone Pattern by Priority
- Configurable Coverage by Area
- Directly Replaces 18A500 Units
- Includes Built-in Diagnostic Tests
- Available with Beige or Gray Trim Rings

ProCare 6000™ Console/ Annunciators

Models: 4A3610B, 438-815A, 18A600, 18B600



438-815A 4-Line display

4A3610B Base Console



Application

Base Console

The 4A3610B Base Console can operate in stand-alone mode or in tandem with GE's Microsoft Windows XP-based Supplemental Display with or without touchscreen interface.

Supplemental Four-Line Display

This four-line display can be used in place of a supplemental PC display. The first call displays on the base console. Up to four additional incoming calls appear on the four-line display in order, from highest to lowest priority and by time of placement. If more than five calls are simultaneously registered in the system, the display flashes a number indicating the total quantity of calls currently registered. Each line shows an alphanumeric room/bed number of up to eight characters, the call priority, and the sequential position of the call within the call queue. When only one call is registered, it appears on the base console and No Other Calls appears on the four-line display. When no calls are registered, No Calls appears on the four-line display and a small heartbeat flashes in the lower right corner. When the base console is communicating with a remote station, the four-line display alerts the operator to new calls by displaying them in order of placement for immediate answering. A separate, UL/CSA Listed, plug-in transformer is provided to power the display from any local 120Vac outlet.

Remote Annunciator Panel

The GE Model 18A/B600 Remote Annunciator Panel is normally located at the nurses' station or other centralized locations such as PBX to visually display calls placed from patient stations and/or emergency stations in the ProCare 6000. Advanced Healthcare Communications System. The calls are individually identified, on a selected basis, by room/bed number, call priority, area, and/or alias name.

Up to 32 annunciators and ProCare 6000 file servers can be combined on one serial data link. Each annunciator can be restricted (filtered) to display any one or a combination of the call identification characteristics.

The annunciator can be used as a direct replacement for the 18A500 Code Blue Display Unit in a ProCare 6000 System, ProCare 4000 plus. System, ProCare 4000® System, and System 2070. However, when operating with remaining 18A500s and/or with any system other than a ProCare 6000, the annunciator must operate in 18A500 mode. In this mode, the annunciator displays only the standard features of the 18A500, but has the capability of assigning an alias name to up to 100 stations/beds.

5 Primary function keys – LOCATE, REMIND, PRIORITY, TONE, MENU - are easy to find and use.

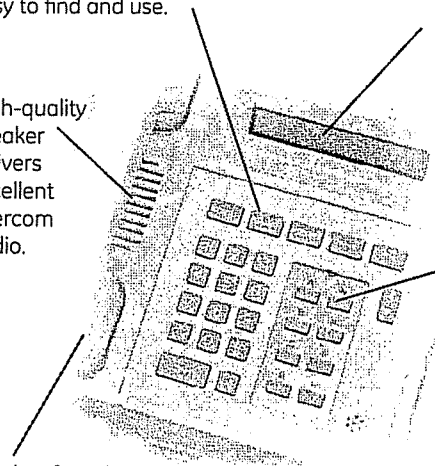
16 character alphanumeric LCD clearly displays call or menu information.

High-quality speaker delivers excellent intercom audio.

Eight "macro" buttons are easily programmed for frequently dialed rooms or functions

Handset for private conversations, supporting HIPAA privacy guidelines.

Moisture resistant keypad for dialing of room numbers, answering and canceling calls.



Engineers' Specifications

Base Console

A GE Model 4A3610B Base Console, with or without a Model 438-753C/D Supplemental Video Display, shall be located at each nurses' station for use with GE's ProCare 6000 System® as shown on the floor plans. It shall include the following functional controls and operational features:

1. A 16-character LCD display window shall indicate the first incoming call, sorted by time of placement order and by call priority. All other pending calls shall be held in memory and displayed as the preceding calls are answered, canceled, or placed on reminder.
2. Each call shall display a three- to eight-digit programmed architectural room number, consisting of a possible combination of ten numbers (0-9) and/or eight preprogrammed alpha characters, and a four-character programmable priority.
3. A speaker, microphone and TALK button, and volume control shall be provided for attendant control of the voice communications with any station assigned to the base console's coverage area. Removing the handset from the cradle shall disconnect the speaker and microphone to provide private two-way communications without using the TALK button.
4. A tone signal shall announce all incoming calls. The tone rate shall be programmable by call priority, and the volume level shall be adjustable.
5. A compact control panel shall feature permanently designated, conductive rubber pushbuttons sealed to protect against moisture. It shall consist of the following controls for system operation:
 - a. A 12-button telephone key pad used in conjunction with eight programmable keys to originate calls to any patient, staff, or duty station. The asterisk (*) key and the pound (#) key shall be used to answer/select and to cancel/disconnect, respectively. In addition, the numbered keys shall be used to select or change call priorities, view staff level locations and reminder settings, and to send pages to pocket pagers.
 - b. Eight keys that can be programmed with any combination of 10 numbers (0-9), alpha characters, and menu instructions for shortcut selection of the stations by room name or number and bed letter, and/or for shortcut selection of menu-driven activities.
 - c. Five functional control buttons:
 - PRIORITY—to assign one of three priority levels to each bed. It shall also be used to scan the system for beds currently assigned to each priority level.
 - LOCATE—to locate and display, by room number, up to three different staff levels registered into rooms.
 - REMIND—to illuminate and flash up to three different color-coded sections of the corridor light outside each patient's room, and to place into memory the patients who require personal attention by the appropriate staff members.
 - TONE—to silence the current call tone while allowing the next incoming call or calls to sound a tone at a rate based on the highest priority of the waiting calls.
 - MENU—to activate system features not directly selectable, including: On/Off Duty, Capture, Capture Scan, Audio Page (Zone, Corridor, All), Time Out Settings, Errors, and Test.
 - d. A TALK button to control voice direction when using the console's speaker and microphone combination.
 - e. A bidirectional volume control to increase or decrease the speaker's incoming audio level.
6. Separate password-protected, software-driven controls shall be provided to independently adjust the audio communications level and tone quality.
7. The housing shall be constructed of gray, UL recognized fire-re-

tardant material with all control surfaces electrically isolated from all system components.

8. An optional Model 9A1489 Power Fail Monitor shall be used when electrical supervision of the system is required as specified in UL 1069, paragraph 18.

9. The base console, as part of the system, shall be UL 1069 Listed.

Supplemental Four-Line Base Console Display

1. An optional 438-815A four-line display module shall be provided for easy mounting and plug-in connection to any ProCare 6000 base console. This four-line display shall be usable in place of a supplemental PC Display. The module shall have the capability to display up to four incoming calls, in addition to the first call displayed on the base console.

- a. The calls shall display in order, from highest to lowest priority and by time of placement.
 - b. If more than five calls are simultaneously registered in the system, the fourline display shall flash a number indicating the total quantity of calls currently registered.
 - c. Each call line shall include an alphanumeric room/bed number of up to eight characters, the call priority, and the sequential position of the call within the call queue.
 - d. When the calls are answered at the base console, they shall be removed from the four-line display; or, if programmed to do so, emergency calls shall continue to display with an Ac (answered call) until canceled at the originating station.
 - e. When only one call is registered, it shall appear on the base console, and No Other Calls shall appear on the four-line display.
 - f. When no calls are registered in the system, No Calls shall appear on the fourline display.
 - g. While the base console is communicating with a remote station, the four-line display shall alert the operator to new calls by displaying the calls in order of placement for immediate answering.
2. A separate, UL/CSA Listed, plug-in transformer shall be provided to power the display from any local 120Vac duplex outlet.

Remote Annunciator Panel

The GE Model 18A/B600 Remote Annunciator Panel shall have the following functional controls and physical features:

1. The GE Model [18A600] [18B600] Remote Annunciator Panel with a [beige] [gray] trim ring shall flush-mount in a four-gang backbox that is a minimum of 3-1/2 inches (8.9 cm) deep. It shall be located as shown on the floor plans and/or as a direct replacement of a currently installed 18A500 Code Blue Display Unit. To use the annunciator's enhanced mode, the ProCare 6000 file server must be 110-3613D or later.
2. Each annunciator panel shall have the ability to respond to all calls placed on a facility-wide basis or be limited to a choice of up to 12 LAGs (system IDs) and up to eight duty areas.
3. Additional filters, on a call priority basis, may be applied to delay the on-screen display of calls up to 99 minutes. A .DC. code shall appear on the display when a delayed call is received. The call shall then only appear on screen after the time limit has been reached.
4. The display shall have four lines of 20, 5x7 VF (Vacuum Fluorescent) blue-dot-matrix, 9 mm high characters capable of providing an alpha-

numeric description of up to four calls. Each call display shall include two of the three possible fields: room/bed number, call priority, and area name/room alias name. Two additional display modes that each display all three fields shall be included. One of these modes shall display four calls per screen (truncating individual fields when necessary). The other shall allow the full, non-truncated display of two calls per screen.

5. In the idle state (no calls pending), the annunciator panel shall alternately display the GE product name and the facility's name/area as programmed by the facility.

6. A choice of two or four calls to be simultaneously displayed shall be available dependent on the display mode chosen and/or the desired quantity and length of characters of the descriptive fields chosen. The maximum number of characters per descriptive field shall be determined by the display mode chosen. If the total number of characters exceeds the limit, the fields shall automatically be truncated.

7. Pending calls shall be displayed in the order of priority (highest to lowest) then by the time received. Each call line shall be numbered (two digits) having the last line alternately displaying the call with the number of the call and the total number of calls contained in the call pending list. As the calls are cleared, the display shall automatically adjust the listing and include those that had not been previously been listed.

8. If the number of pending calls exceeds the number of call lines available, the last line shall be configurable to automatically scroll between the remaining calls pending list of up to 32 calls. The user shall also be able to manually review calls using the UP and DOWN buttons on the front panel.

9. A tone signal shall announce all incoming calls. The tone rate and frequency shall be programmable by call priority, and the volume level shall be adjustable. A tone defeat switch shall silence the current call tone. If a silenced call is not answered within a programmable time limit based on call priority, or if the annunciator receives a new incoming call, the tone shall be reactivated.

10. A continuous "heartbeat" shall be displayed, indicating the annunciator is properly connected to the system and is operational. When a data fault (link failure) is detected, the display shall be indicated the loss of data connection and the annunciator shall continuously sound a tone. If the annunciator should become inoperative, the heartbeat shall disappear.

11. A choice of five display layouts shall be available, each including a type and predetermined maximum size of descriptive field for the number of lines or pending calls displayed. The desired display layout shall be individually selected at each annunciator panel within the facility/system as follows:

- a. One line-Room Number only
 1. 1 line per pending call
 2. 6-character room number (max)
 3. Reserved for direct replacement of 18A500 (Mode 1)
- b. One line-Room Number and Area Name
 1. 1 line per pending call
 2. 8-character room number
 3. 11-character duty area (truncated, first 8 characters)
- c. One line-Priority and Room Number and Area Name
 1. 1 line per pending call
 2. 8-character room number (truncated, last 6 characters)
 3. 11-character duty area (truncated, first 5 characters)
 4. 4-character priority name
- d. One line-Priority and Room Number
 1. 1 line per pending call
 2. 8-character room number
 3. 4-character priority name
- e. Two lines-Priority name and Room Number and Area Name

1. 2 lines per pending call
2. 8-character room number
3. 4-character priority name
4. 11-character duty area (line #2)

12. The duty area name displayed on the annunciator panel, by default, shall be the duty area name assigned in the ProCare 6000 System. If the ProCare 6000 System is not configured for duty area names, the system default area name, "No Area," shall be displayed. In place of the duty area name an alias of up to 11 characters, depending on the chosen display mode, may be assigned to up to 100 room/bed numbers.

13. The call priority names displayed on the annunciator panel, by default, shall be the priority names assigned in the ProCare 6000 System. In place of these default names, alternate four-character priority names may be assigned to any or all of the priorities. These alternate names shall only appear at the annunciator, and shall not change the actual priorities of the calls placed.

14. The annunciator software shall provide an operational sequence to verify the annunciator is in proper operation and calls shall be displayed when received. In addition, the annunciator shall be self-diagnostic in its ability to determine and display on command the number of hours of operation and the number of errors, if any, that occurred during that time period.

15. A single RS-232 output port shall be available. This port shall be designed for the purpose of driving an auxiliary multi-line display panel that shall be available at a later date. The display panel shall be manufactured by compliant companies as recommended and tested with the 18A/B600 by GE. The protocol (interface software) shall be provided by the manufacturer of the auxiliary display panel to meet with the specific requirements of the GE application software.

16. An input port connection shall be available. With the aid of PC-based configuration software to be made available at a later date, this port shall support the option of configuring the annunciator using a separate laptop PC prior to the physical installation of the annunciator.

17. Four front-panel control buttons (MENU, UP, DOWN, SEL) shall be provided for use by authorized staff, through a password entry. These buttons shall be used to uniquely configure the annunciator for specific coverage, display, and tone characteristics. They shall also be used to make any additional adjustments after installation.

18. A subminiature relay shall be provided for the connection of external devices such as an elapsed time clock. When a code blue call is displayed on the station, the relay shall be energized and remain energized until which time the call is canceled at the originating location. The normally open (NO) contact shall control any external device requiring no more than 75ma. A second relay shall, when energized each time a code blue call is placed, provide a momentary contact closure. Both relays shall be connected via a combined four-pin plug-in connector.

19. Each group of up to six 18A/B600 annunciator panels shall be powered from a single Model 17A/B451 Power Supply including a Model 110-2185B 12Vdc power supply module, a backbox, and a cover.

20. One 9A1489 Power Monitor shall optionally be installed for each group of 18A600s that share a power supply, to monitor the power to those annunciators.

21. This product is Listed to UL Standard for Safety, UL 1069, and the appropriate Canadian requirements/standards by Underwriters Laboratories Inc. (UL).

Ordering Information

Model	Description
4A3610B	Base Console
18A/B600	Remote Annunciator Panel
438-815A	Supplemental 4-Line Display
Associated Equipment for Base Console	
9A1489	Power Fail Monitor (optional)
12A3605 Series	Central Equipment
Model 438-753C/D	Supplemental Video Display Software Application (optional)
HC-PC-DSK2-XP	Supplemental Touchscreen Display Unit (optional)
110-3284	Single-Gang Wallplate Receptacle (1 per 4A3610B - ordered separately)
110-3616A	Master Interface Unit (MIU) PCB (one per 4A3610B - ordered separately)
438-815A	Four-Line Display Unit (optional)
Associated Equipment for Remote Annunciator Panel	
110-3613D	ProCare 6000 File Server
17A451	Flush Power Supply
17B451	Surface Power Supply
9A1489	Power Monitor (optional)
RACO #698 or equal	Four-Gang Backbox, 3-3/4" (9.5 cm) H, 7-13/32" (18.8 cm) W, 3-1/2" (8.9 cm) D



438-815A 4-Line display



110-3284
Receptacle

GE Security

U.S.
T 800-385-2639

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imagination at work

Overview

Staff/Duty Station

The GE Model 4A2495 Staff/Duty Station is normally located in any room where staff members may be temporarily working. The station can be preprogrammed to continuously monitor the system, alerting the staff to any patient calls placed within the zone by flashing an LED and sounding a tone.

Duty Station Kit

The GE Model 438-818 Duty Station Kit allows the installation of up to six duty stations to provide tone and light annunciation of calls placed in a ProCare 6000 System. The kit includes the electronics of a zone light mounted onto a plastic one-gang to two-gang adapter plate with plug-in connectors for connection to a self-contained tone-only duty station, and up to five other duty stations within the same area. When a call is placed within the duty station's assigned room range of a 32-station zone, the station's red LED flashes and emits an audible tone at a rate dependent on the priority of the call.

Standard Features

Staff/Duty Station

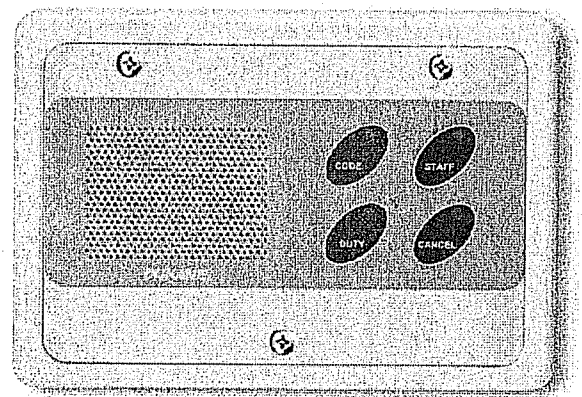
- Built-In Microprocessor
- Pressure-Sensitive Micro Switches
- Long-Life, High Intensity LED Display
- Plug-In Connection
- Sensitive Speaker/Microphone
- Incoming System Call Tone
- Three-Gang, Semi-Flush Mounted Design

Duty Station Kit

- Economical Duty Tone Application
- Configurable Coverage
- Multiple Locations
- Matching Color and Design
- ESD Protected
- Plug-In Connection

ProCare 6000™ Staff, Duty Stations

Model: 4A2495, 438-818



Application

Staff/Duty Station

A routine staff call can be placed by pressing the STAFF switch, which illuminates the associated LED and the corridor light, and displays the calling station's number at the base console. An additional CODE switch is provided to place a high priority call. This call type can only be canceled by pressing the station's CANCEL switch.

A speaker/microphone allows communication between the room and the base console.

Any time the staff/duty station is selected by the base console for communication, the LED associated with the CANCEL switch illuminates to ensure privacy.

The station's built-in microprocessor controls and prioritizes calls placed from the station and from remote stations within the room. All signals are multiplexed onto the system without using unique wire on a per station basis. The station is continually supervised by the associated central equipment.

Duty Station Kit

The LED continues flashing and the tone continues emitting sound until the call is canceled. The tone high/low level is independently adjusted at each duty station. The duty stations do not count toward the maximum number of 32 stations allowed per zone (ZIU). Optionally a Model 18A430 Zone Light can be provided to visually display the calls by priority. The number of installed 438-818 kits and zone lights should not exceed 16 in any given zone.

Engineers' Specification

Staff/Duty Station

The GE Model 4A2495 Staff/Duty Station shall be located in all rooms where staff may be located temporarily, such as day rooms, waiting rooms, or examining rooms, or as shown on the floor plans. It shall have the following functional controls and physical features:

1. The station shall have a speaker/microphone for hands free, two-way voice communication between the base console attendant and anyone in the room, without requiring the person to direct their voice toward the station or operate any controls. The dynamic speaker/microphone shall have a minimum 2-inch (5.1 cm) diameter cone and ceramic magnet able to produce 80dB, +/-2dB SPL at 4 feet (1.2 m) when a random noise signal of 0.2 watt is impressed on its terminals while the protective grille and coverplate are in place. The signal shall be shaped to produce equal energy between 500Hz and 5,000Hz (voice range) in one-third octave bands to maximize the clarity of two-way voice communications.
2. The station shall have four long-life LEDs and four pressure-sensitive micro switches to control the call placement or system duty functions within the room, including:
 - a. A STAFF switch, outlined in white, for placement of a normal staff call to the base console. An associated LED shall steadily illuminate and two beeps shall sound for call placement verification.
 - b. A CODE switch, outlined in blue, for placement of a code blue call. If desired, the user shall be able to enter a custom name for this priority at the base console. An associated LED shall steadily illuminate and eight beeps shall sound for call placement verification. A Code Blue Elapsed Timer Start feature shall be included to provide a closed or open contact for external control of a digital timer or similar device when the code blue call is placed.
 - c. A CANCEL switch for cancellation of any call placed from the room station. The associated LED shall illuminate steadily and two beeps shall sound any time communications are established between the room station and the base console. Optionally, the CANCEL switch shall also silence the current call tone signal that announces all incoming calls within the area by three different tone priority rates. If the tone has been silenced, the next incoming call shall again sound the tone at a rate equal to the highest call priority. The associated LED shall flash slowly when the current call tone signal is silenced.
 - d. A DUTY switch that, when pressed on stations configured as staff stations, shall illuminate the associated LED. Any call placed from another station that is within the same duty area, that has the same base console coverage, or that has the same assigned staff ID number shall flash the LED and sound a tone at a rate associated with the call's priority.
 - e. If the station is configured as a duty station, the system duty function shall always be activated, and the associated LED shall remain steadily illuminated. Any time a call is placed from another station, the LED shall flash and the tones shall sound in the same manner as a staff station.
 - f. At both staff and duty stations, a distinctive tone shall sound when a call is placed from an associated lavatory station, if required.

3. The station shall be programmed to control itself and associated room devices, such as a remote emergency station and corridor light. The room number shall be user-programmable. Failure of the central equipment, base console, or other stations in the zone shall not affect the normal operation of the signals or lights associated with the room. Continuous supervision per UL 1069, Section 18, shall be provided so that if a staff/duty station fails, the base console shall automatically be notified and the station's number identified for temporary removal from the system. When the station is replaced, the new station shall automatically assume the identity of the failed station.

4. Three auxiliary inputs shall be available for assignment and plug-in connection of external monitoring equipment.

a. [One] [Two] Model 438-761 Remote Auxiliary Input Isolation PCB Kits, each consisting of a 1/4-inch (6.4 mm) diameter jack and its associated isolation network and alarm LED indicator, shall be provided and mounted to a single-gang stainless steel wallplate, and shall be located near the staff station for easy staff access. A dummy plug shall be provided to allow removal of the monitor equipment when not in use.

b. A single Model 438-761 Remote Auxiliary Input Isolation PCB Kit, consisting of a 1/4-inch (6.4 mm) diameter jack with a dummy plug and its associated isolation network and alarm LED indicator, shall be provided and mounted in close proximity to the room monitoring equipment, as shown on the drawings, and permanently connected to the station.

c. Each auxiliary input assembly shall be powered from a separate station power supply, or if an optional Model 437-00109 Isolation Chip is installed, powered directly from the staff station.

d. When the contact closure on the external portable monitor equipment is activated or unplugged from the auxiliary input, a distinct user-programmed priority call, chosen from six possible priorities, shall be placed to the base console, causing the auxiliary input's LED to steadily illuminate and the white section of the corridor light to flash for the device priority selected. The call shall remain in the system until the monitor equipment's alarm circuit is reset.

e. When the contact closure on the room monitor equipment is activated, a distinct priority call shall be placed to the base console, causing the auxiliary input's LED to steadily illuminate and the red, amber, and green sections of the corridor light to sequentially flash in a marquee manner. The call shall remain in the system until the monitor equipment's alarm circuit is reset.

f. Optionally, a Model 9A2125 or 9A2126 Auxiliary Input Station shall be installed and associated with the staff station. Only UL 544 Listed equipment that has maintained, dry, isolated contacts when in alarm mode and that has a standard 1/4-inch (0.64 cm) diameter phono plug can be used with the input stations.

5. The station circuitry shall be mounted on a three-gang chassis constructed of non-conductive, high impact, flame-retardant ABS plastic, rigidly reinforced to prevent breakage if attached to improperly installed backboxes, and to withstand pressure if pulled on. All control surfaces shall be covered by a single laminated overlay to

protect the controls and designations against wear due to continual usage and cleaning solutions. The station chassis shall be 4-1/2 inches (11.4 cm) high and 6-3/8 inches (16.2 cm) wide, and shall extend 9/10 inch (2.3 cm) from the wall surface for mounting into a standard 3-gang, 3-1/2 inch (8.9 cm) deep backbox.

6. A SPDT subminiature relay shall be provided for connection and start control of external devices such as an elapsed timer. When a code blue call is placed from the station, the relay shall be energized and remain energized until the code blue call is canceled. A form "C" make/break contact shall control any external device requiring no more than 75ma via a separate Model 200-1332 three-pin plug-in connector.

7. All external connections shall be made by prewired, color-coded, plug-in connectors for ease of installation, replacement, and maintenance.

8. This product is Listed to UL Standard for Safety, UL 1069, and the appropriate Canadian requirements/standards, by Underwriters Laboratories Inc. (UL).

Duty Station Kit

1. One or more Model 438-818 Duty Station Kits shall be provided for plug-in installation of a single-gang tone-only duty station requiring connection to a zone of a ProCare 6000 System. Each module of duty stations shall operate independently responding to its unique room assignments.

a. A range of sequential room numbers (IDs), up to a maximum of 32, shall be programmable by a set of DIP switches on the kit PCB for assignment of the rooms to the duty station or group of duty stations.

b. When a call is placed from a room within the configured range, the LED on the primary duty station shall flash at a rate dependent on the priority of the call. A different pulsating tone shall be emitted corresponding to the flash rate of the LED.

c. The tone level shall be adjustable to high or low but not off, by means of a pushbutton switch on each duty station.

d. Each kit shall be mounted onto a one to two-gang backbox having a plastic adapter plate of similar color as the station trim ring with a one-gang opening for the plug-in installation of a Model 4A2235A Tone Only Duty Station (ordered separately).

2. Up to five Model 4A2235A Duty Stations shall be purchased separately and located as indicated on the floor plans for parallel connection, and identical operation to the primary duty station.

3. When indicated on the floor plans, a Model 18A430 Four-Lamp Zone Light shall optionally be provided and configured identically to the kit PCB, and located above the duty station module to visually indicate the call priorities by color (white, red, amber, green) and flash rate.

4. The installed station kit shall meet UL 1069 Listing requirements.

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Ordering Information

Model	Description
4A2495	Staff/Duty Station
438-818	Duty Station Kit

Associated Equipment - Staff/Duty Station

RACO #697 (or Three-Gang Masonry Backbox 3-3/4" (9.5 cm) high, 5-19/32" (14.2 cm) wide, and equal) 3-1/2" (8.9 cm) deep

Notes: Do not use gangable backboxes of any kind. Adapter plates are available for larger gang backboxes if used.

200-1331 Plug-In Connector (6-pin), part of 438-931 (12 in kit, 1 required)

200-1332 Plug-In Connector (3-pin), part of 438-932 (12 in kit, 1 required)

Note: Two 200-1332 connectors are required if elapsed timer feature is used.

200-1334 Plug-In Connector (3-pin), part of 438-934 (12 in kit, 1 required)

200-1336 Plug-In Connector (22-pin), part of 438-936 (12 in kit, 1 required)

External Control Options

438-761 Remote Auxiliary Input Isolation PCB Kit (2 maximum)

438-762 Single-Gang Mounting Kit (for one 438-761 PCB)

438-763 Single-Gang Mounting Kit (for two 438-761 PCBs)

9A2125 Auxiliary Input Station (single-gang, for UL 544 Listed devices)

9A2126 Auxiliary Input Station (dual gang, for UL 544 Listed devices)

Associated Equipment - Duty Station Kit

4A2235A Duty Station—Tone Only (one required, six maximum per kit)

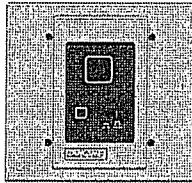
9A2325 Arbitrator Monitor

17A452 Power Supply (flush)

18A430 (optional) Zone Light

RACO #696 Two-gang backbox, 3-3/8" (8.6 cm) W x 3-3/4" (9.5 cm) H x 3-1/2" (8.9 cm) D

Note: Do not use gangable backboxes.



Duty Station Kit



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Overview

The GE ProCare 6000 Patient Station is available as Model 4A2481B Single Patient Station or Model 4A2486B Dual Patient Station. The station is normally located in the headwall of patient rooms adjacent to the bed or between two beds, allowing staff easy access to the controls. Optionally, the station is used in conjunction with one or two electronic bed communications systems supplied by Hill-Rom® or Stryker® with an interconnection cable and baseboard wall receptacle.

Through these stations, the patient can place one of three predetermined types of patient calls to the staff console using an attached pillow speaker/call cord device or an electronic bed rail. The staff console attendant can respond in person, or can answer and simultaneously cancel a normal patient call by communicating with the patient through the pillow speaker or bed rail. If the pillow speaker, call cord, or bed is disconnected, a cord out call is placed to the staff console and communications automatically revert to the patient station speaker.

Patient privacy is ensured by an LED that illuminates on the station, pillow speaker, and bed rail and by a tone that sounds when the station is selected for intercommunication.

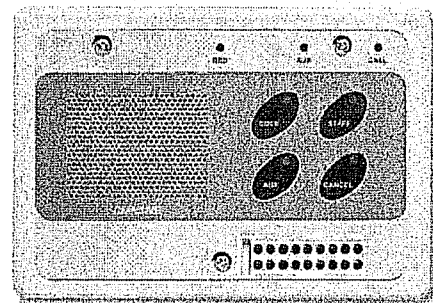
When any of three (for Model 4A2481B) or five (for Model 4A2486B) auxiliary monitoring devices are connected to the station, or an auxiliary cord adapter is plugged into the station and the ports are activated, an auxiliary priority call is placed to the staff console based upon a station-specific programmable priority level and identifier.

Single and Dual Patient Stations

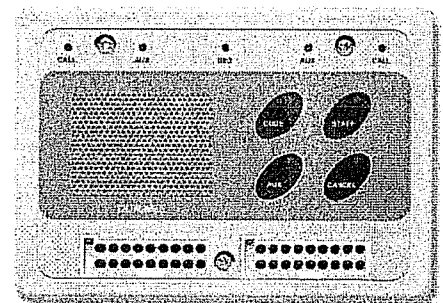
ProCare 6000™ 4A2481B, 4A2486B

Standard Features

- 3 Gang semi-flush construction and neutral colors easily adapt to most healthcare settings
- Single and dual station configurations support pillow speaker and/or siderail bed communication
- Pressure-sensitive membrane switches for years of reliable operation
- Simple labeling and color-coded buttons are easy to use
- Bright red LEDs clearly indicate station's status
- Configurable AUX button provides flexible call option
- Stations support two nameable aux inputs per bed and one nameable aux input per room
- Crystal-clear intercom audio enhances communication between patients and staff
- Durable pillow speaker receptacles are designed by GE to withstand heavy use
- Code Blue, Staff Emergency and AUX call capability are standard on every patient station
- UL 1069 Listed



4A2481B

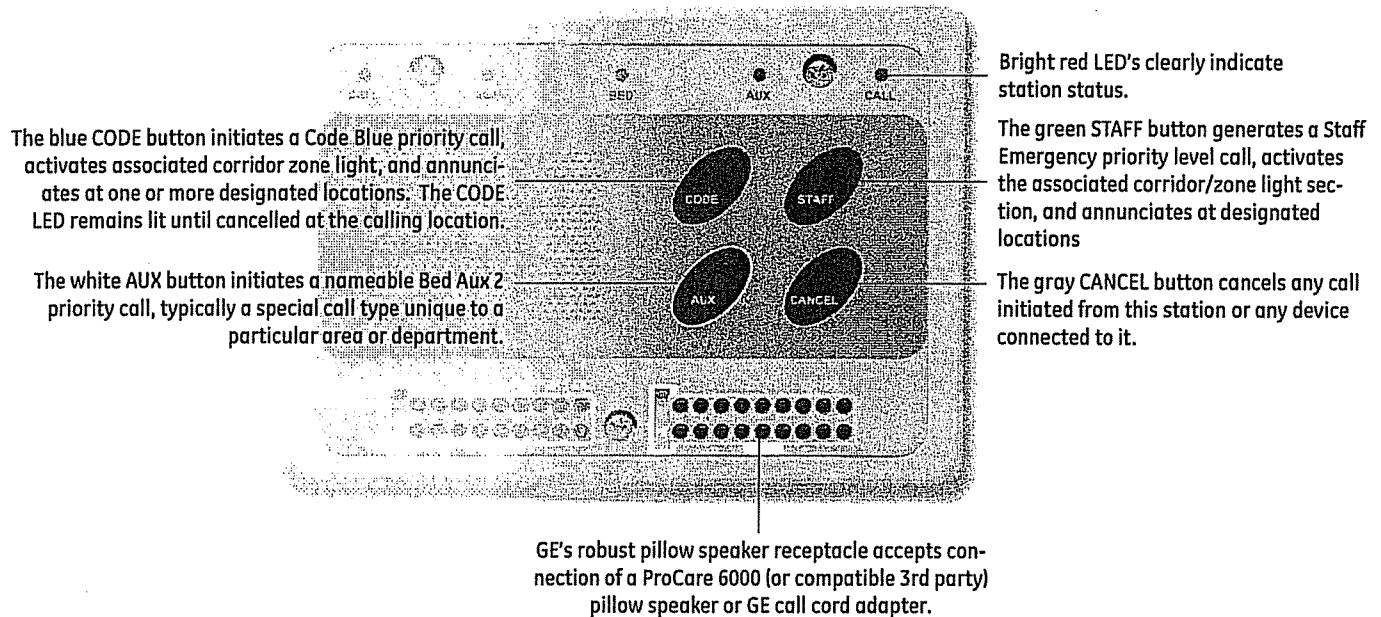


4A2486B



Operation

The ProCare 6000's Patient Stations offer a wide range of capabilities designed to support any healthcare setting. The following features are standard on both the single and dual patient stations:



Application

These patient stations provide patients with the ability to place calls with optional control of their TV and room lighting. They can be installed either one per bed or a dual station shared in a semi-private room. Often this is determined by existing construction considerations.

In addition to typical patient calls, GE's 4A2481B/2486A also interface with electronic beds having siderail communication capability, auxiliary patient monitoring devices having contact closure outputs, and specialty call devices such as breath call and air call cords.

Engineering Specification

The GE Model 4A2481B Single Patient Station shall be located in each private room, or GE Model 4A2486B Dual Patient Station shall be located in each semi-private room, as shown on the floor plans, with each bed capable of using a handheld pillow speaker, an electronic bed as manufactured by Hill-Rom or Stryker, or both. The station shall have the following functional controls and physical features:

1. The station shall have a speaker/microphone for hands-free, two-way voice communication between the staff console attendant and the patient when a pillow speaker or electronic bed communications rail is not used or has been accidentally or intentionally disconnected. Speaker communication shall be achieved without the patient directing their voice toward the station or operating any controls.

2. The station shall have four pressure-sensitive micro switches and seven (for single patient station) or nine (for dual stations) long-life LEDs to control patient and staff functions within the room, including:

a. One or two CALL LEDs (depending on single or dual patient station) to display any one of three selected patient level calls when the call button of a call cord, pillow speaker, or electronic bed rail connected to the station is pressed. The CALL LED shall steadily illuminate and a double beep shall sound for call placement verification, regardless of call level. The CALL LED shall remain lit until the call is canceled.

b. A STAFF button, outlined in green, for placement of a staff emergency call. If desired, the user shall be able to enter a custom name for this priority at the staff console. An associated LED shall steadily illuminate and eight beeps shall sound for call placement verification.

c. A CODE button, outlined in blue, for placement of a code blue call. If desired, the user shall be able to enter a custom name for this priority at the staff console. An associated LED shall steadily illuminate and eight beeps shall sound for call placement verification.

d. An AUX (auxiliary) button, outlined in white, for placement of one of seven predetermined auxiliary level priority calls as configured by the user at the staff console, without the use of a call cord or pillow speaker connected to the station. The AUX switch's LED shall steadily illuminate, the AUX LED at the top of the station shall flash, and eight beeps shall sound for call placement verification, regardless of call level.

e. A CANCEL button for room cancellation of any call placed from the patient station, any associated code blue and staff emergency calls, and any reminders that have been set.

1. The LED associated with the CANCEL switch shall illuminate steadily and a single tone shall sound any time communications are established between the room station and the staff console or wireless telephone.

2. If the station is so configured, a staff member carrying an IR locator badge or pressing a separate presence station button upon entry to the room shall cause the LED associated with the CANCEL switch to flash slowly.

3. Pressing the CANCEL switch for at least two seconds shall clear any presence set at this station.

4. When a call is placed from another station that is within the same duty area, that has the same staff console coverage, or that has the same assigned staff ID number, the CANCEL LED shall flash and the station shall sound a repeating "duty" tone based upon the priority of the call (normal calls = slow flash and tone, emergency calls = medium flash and tone, code blue calls = fast flash and tone). A distinctive steady tone shall sound when a call is placed from the lavatory station within the same room.

5. Pressing the CANCEL switch shall temporarily silence the tone and return the LED to a slow flash rate. If another call is placed, the tone shall again sound and the LED shall again flash.

f. A BED LED that shall flash to indicate that the electronic bed (or 37-pin pillow speaker) associated with the station has been accidentally or intentionally disconnected from the 37-pin wall receptacle located at the headwall baseboard.

3. The single patient station shall have one, the double patient station two, front panel multi-pin receptacles that accept standard call cords (with or without adapters) for placing patient calls, and/or a pillow speaker capable of placing patient calls, controlling the TV set and optional environment lighting, and receiving TV audio.

4. The single patient station shall have one, the dual patient station two, rear panel multi-pin receptacles that accept Model 438-537B 8-foot (2.4 m) plug-in cables for connecting up to two Hill-Rom or Stryker electronic beds to the patient station via Model 9A2137A 37-pin wall receptacles mounted approximately 6 inches (15.2 cm) above the floor.

5. When a pillow speaker and an electronic bed are connected to the station, the two-way voice communications, TV audio, and functional controls shall operate simultaneously and in parallel through both the pillow speaker and bed rails. If a call cord, pillow speaker, or electronic bed is disconnected, a cord out priority call shall be originated.

6. The station shall be programmed to control itself and its associated room devices, such as the lavatory station and corridor light. The room number, bed number, and call priority shall be user-pro-

grammable from the staff console.

7. In the case of a single patient station, up to three additional auxiliary inputs shall be available for assignment and plug-in connection of external monitoring equipment to the patient station. In the case of a dual patient station, up to five additional auxiliary inputs shall be available for assignment and plug-in connection of external monitoring equipment to the patient station.

a. [One] [Two] Model 438-761A Remote Auxiliary Input Isolation PCB Kits, each consisting of a 1/4-inch (6.4 mm) diameter jack and its associated isolation network and alarm LED indicator, shall be provided and mounted to a single-gang stainless steel wallplate, and shall be located near the bed for easy staff access.

b. A single Model 438-761A Remote Auxiliary Input Isolation PCB Kit, consisting of a 1/4-inch (6.4 mm) diameter jack with a dummy plug and its associated isolation network and alarm LED indicator, shall be provided and mounted in close proximity to the room monitoring equipment.

c. Each auxiliary input assembly shall be powered from a separate station power supply, or if an optional Model 437-00109 Isolation Chip is installed, powered directly from the patient station.

d. When the contact closure on the external portable monitor equipment is activated or unplugged from the bed auxiliary input, a distinct user-programmed priority call, chosen from seven possible priorities, shall be placed to the staff console. The call shall remain in the system until the monitor equipment's alarm circuit is reset.

e. When only UL 544 Listed monitor equipment is used, a Model 570-305 or 570-306 Call Cord Adapter shall be provided in lieu of the Aux 2 wall-mounted isolation input and plugged into the pillow speaker receptacle for parallel operation of a pillow speaker, standard call cord, and/or portable monitor equipment.

f. Optionally, a Model 9A2125 or 9A2126 Auxiliary Input Station shall be installed and associated with the patient station in place of the 570-305 or 570-306 adapter. Only UL 544 Listed equipment that has maintained, dry, isolated contacts when in alarm mode and that has a standard 1/4-inch (0.64 cm) diameter phone plug can be used with the input stations.

8. The station circuitry shall be mounted on a three-gang chassis constructed of non-conductive, high impact, flame-retardant plastic, rigidly reinforced to prevent breakage if attached to improperly installed backboxes, and to withstand pressure if a device is pulled from its receptacle. All control surfaces shall be covered by a single laminated overlay to protect the controls and designations against wear due to continual usage and cleaning solutions.

9. The station shall be 4-1/2 inches (11.4 cm) high and 6-3/8 inches (16.2 cm) wide, and shall extend 9/10 inch (2.3 cm) from the wall surface for mounting into a standard 3-gang, 3-1/2 inch (8.9 cm) deep backbox (RACO #697 or equal 3 gang masonry backbox).

10. An SPDT subminiature relay shall be provided for connection and start control of external devices such as an elapsed timer.

11. All external connections shall be made by prewired, color-coded, plug-in connectors for ease of installation, replacement, and maintenance.

12. Stations shall be powered by GE Model 110-2185B 12VDC Power Supply.

13. This product is Listed to UL Standard for Safety, UL 1069, and the appropriate Canadian requirements/standards, by Underwriters Laboratories Inc. (UL).

Hardware Specifications

Power Requirements	100 mA @ 12Vdc (maximum)
Mounting	Semi-Flush mount to standard North American 3-gang 3.5" (8.9 cm) deep masonry backbox (RACO #697 or equal).
Construction	Light gray ABS plastic
Keyswitches	Mechanical membrane
Speaker	8 Ohm, 0.25 watt
Outside Dimensions	Width: 6.375" (16.19 cm) Height: 4.5" (11.4 cm) Depth: 0.9" (2.3 cm) from wall surface

Ordering Information

Model Number	Description
4A2481A	GE ProCare 6000 Single Patient Station
4A2486A	GE ProCare 6000 Dual Patient Station

Associated Equipment

200-1330	Plug-In Connector (14-pin), part of 438-930 (12 in kit, 1 required)
200-1331	Plug-In Connector (6-pin), part of 438-931 (12 in kit, 1 required)
200-1332	Plug-In Connector (3-pin), part of 438-932 (12 in kit, 1 required)
<i>Note: Two 200-1332 connectors are required if elapsed timer feature is used.</i>	
200-1333	Plug-In Connector (6-pin), part of 438-933 (12 in kit, 1 required)
200-1334	Plug-In Connector (3-pin), part of 438-934 (12 in kit, 1 required)
200-1336	Plug-In Connector (22-pin), part of 438-936 (12 in kit, 1 required)

Optional Equipment (Hill-Rom or Stryker Beds)

438-537B	Cable Kit, for connection of station to 37-pin wall receptacle (1 required per bed)
9A2137A	Dual 37-Pin Wall Receptacle (1 required per bed) - Use RACO #695 or equal Single Gang Masonry Backbox.

Optional Pillow Speakers

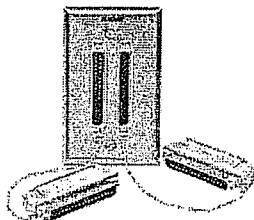
7A2016	Pillow Speaker w/ CALL and PRIVACY LEDs and four control switches
7A2031	37-Pin Pillow Speaker w/ CALL and PRIVACY LEDs and four control switches
7A2116, 7B2116, 7C2116	Smart Pillow Speaker (A-RCA; B-Zenith; C-Philips)
7A2131, 7B2131, 7C2131	37-Pin Smart Pillow Speaker (A-RCA; B-Zenith; C-Philips)
438-707	Pillow Speaker Hanger

Optional Call Cords and Adapters

200-446	Single Air Cord Assembly (6 feet/1.83 m)
200-1071	Single Squeeze-Pad Air Cord Assembly (6 feet/1.83 m)
200-1072	Air Operated Pushbutton Cord Assembly (8 feet/2.44 m)
200-1073	Single Squeeze-Pad Air Cord Assembly (10 feet/3.05 m)
200-1272	Pushbutton Call Cord, 18-pin (12 feet/3.7 m; adapter NOT required)
570-303A	Call Cord Adapter for use with 200- series call cord and pillow speaker
570-304	Call Cord Adapter for use with 200- series call cord
570-305	Call Cord Adapter for use with 200- series call cord, pillow speaker, and UL 544 Listed auxiliary monitor device
570-306	Call Cord Adapter for use with 200- series call cord and UL 544 Listed auxiliary monitor device

External Control Options

438-761	Remote Auxiliary Input Isolation PCB Kit
438-762	Single-Gang Mounting Kit (for one 438-761 PCB)
438-763	Single-Gang Mounting Kit (for two 438-761 PCBs)
9A2125	Auxiliary Input Station (single-gang, for UL 544 Listed devices)
9A2126	Auxiliary Input Station (double-gang, for UL 544 Listed devices)



9A2137A
Dual 37-Pin Receptacle



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Overview

Corridor Light

GE Model 18A/B424 (A-Beige; B-Gray) and 18A/B430 Zone Lights are mounted on walls and/or ceilings outside patient rooms and in patient area corridors to provide visual annunciation of call events and room status. Corridor lights annunciate calls and status of one room; Zone lights indicate annunciate calls and status from a group of rooms.

Zone/Corridor Light

A GE Model 18A430 (beige trim ring) or 18B430 (gray trim ring) Zone/Corridor Light is normally located at corridor intersections, and between the base console and any rooms where the associated corridor lights cannot be readily seen by staff. It is also used as a corridor light located outside each room containing more than one patient, staff, or duty station.

Standard Features

Corridor Light

- Four color sections provide flexible visual annunciation
- Distinct color separation simplifies event identification
- Quick and easy lamp replacement
- Microprocessor controlled
- Non-conductive surfaces
- UL 1069 Listed

Zone/Corridor Light & Arbitrator Monitor

- User-Programmable
- Call, Reminder, and Presence Functions
- Large Surface for Zone Identification
- Easy Lamp Replacement
- Microprocessor Controlled
- Non-Conductive Surfaces
- Supervised Operation

Corridor Light with Coupler

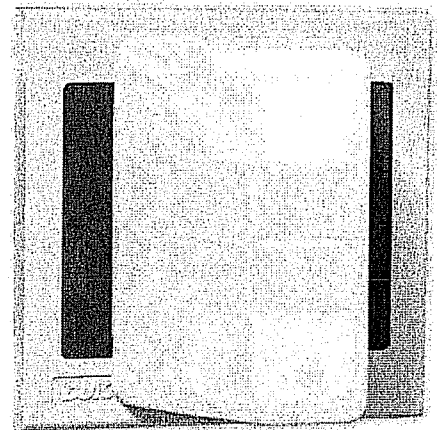
- Multistation Application
- Three Colored Sections
- Excellent Light Separation
- Large Surface for Room Identification
- Easy Lamp Replacement
- Non-Conductive Surfaces

Triple Corridor Light with Coupler

- Multi-Station Application
- Three Colored Sections
- Excellent Light Separation
- Large Surface for Room Identification
- Easy Lamp Replacement
- Non-Conductive Surfaces

ProCare 6000™ Corridor, Zone Lights

Model: 18A/B424 Corridor Light,
18A/B430 Zone Light



Application

Corridor and zone lights are used to provide visual indication of calls and room status in patient care areas. Through the use of different colors and flash rates, staff are aware of service requests and/or staff presence within patient rooms.

Zone/Corridor Light

The zone light contains the same number of lamps and indicates the same functions as the corridor lights it represents, including six types of normal/priority calls, three reminder levels to indicate that staff follow-up is required for a patient in that area or zone, and three presence levels to display the locations of various staff members. The zone light is programmed to respond to a group of user-selected room corridor lights, with the capability for overlap to allow more than one zone light to respond to the same room, and at the same time respond individually to other rooms. The selection of coverage can be changed at any time using the built-in mini-switches.

To maintain visual operation in the event of a central equipment malfunction, one Model 9A2325 Arbitrator Monitor must be provided and installed for each zone (ZIU) having one or more zone lights.

Corridor Light with Coupler

The coupler allows connection of up to five each of the four different types of stand-alone devices. The red, amber, and green lamp sections of the corridor light provide four different lighting conditions, each dependent upon the type of station placing the call.

A GE Model 18A433 (beige trim ring) or 18B433 (gray trim ring) Corridor Light with Coupler is located in the corridor, above or next to the entrance door of a room that has a stand-alone auxiliary contact closure, code blue station, staff emergency station, and/or pushbutton or pull cord emergency station not connected to the ProCare 6000® System through a patient or staff/duty station with intercom capability.

Triple Corridor Light with Coupler

The GE Model 18A435 (beige trim ring) or 18B435 (gray trim ring) Triple Corridor Light with Coupler is located in the corridor, above or next to the entrance of a room or area that has up to five each of a visual only patient station, a code blue station, a pushbutton or pull cord emergency station, and/or an auxiliary contact closure such as a smoke detector not connected to the ProCare 6000® System through a patient or staff/duty station with intercom capabilities. The white, red, and amber lamp sections of the corridor light provide four different lighting conditions, each dependent upon the type of station placing the call.

Operation

Corridor and zone lights are passive devices, providing caregiving staff with visual indication of service requests and room status information.

Engineers' Specifications

Corridor Light

The GE Model [18A424] [18B424] Corridor Light and [18A430] [18B430] Zone Light with [beige] [gray] trim ring shall be wall- or ceiling- mounted adjacent to the entrances to all patient, staff, and duty rooms and patient area corridors as shown on the floor plans.

1. All lamps shall have a standard bayonet base, shall operate on 12 volts, and shall be controlled by the room station microprocessors assigned to the light. Each lamp's color shall be determined by the function being provided from the 4A23xx or 4A24xx series room stations as follows:

Normal patient/staff call:	Steady white
Priority patient call:	Slowly flashing white (15 ppm)
Emergency patient call:	Fast flashing white (60 ppm)
Lavatory call:	Fast flashing red (60 ppm)
Emergency staff call:	Fast flashing green (60 ppm)
Code blue call:	Fast flashing amber (60 ppm)
Reminder:	Slowly flashing red (15 ppm)
Reminder:	Slowly flashing amber (15 ppm)
Reminder:	Slowly flashing green (15 ppm)
Presence:	Steady red
Presence:	Steady amber
Presence:	Steady green
Bed cord pull out:	Slowly flashing white (15 ppm)
Bed aux 1 call (programmable):	Fast flashing white (60 ppm)
Bed aux 2 call (programmable):	Slow flashing white (15 ppm)
Station aux call (programmable):	Fast strobe flashing red, amber, and green consecutively (60 ppm)

2. The lamp sockets shall be attached to a two-gang chassis constructed of non-conductive, high impact, flame-retardant UL recognized plastic, rigidly reinforced to prevent breakage if attached to improperly installed backboxes.

3. The lamps shall be under a single dome lens with aluminum barriers dividing the lens into separate sections. Colors shall be generated by transparent rubber color caps placed over individual bulbs.

4. The shatterproof, heat-resistant, polymer plastic dome lens shall snap off and on for easy lamp replacement.

5. All external connections shall be made by color-coded wires for installation, replacement, and maintenance ease.

6. 18A/B424 and 18A/B430 shall mount in a RACO #696 (or equal) two-gang backbox 3.75" (9.5 cm) high, 3.38" (8.6 cm) wide, 3.5" (8.9 cm) deep. Note: Do not use gangable backboxes of any kind.

7. The 18A/B424 and 18A/B430 are Listed to UL Standard for Safety, UL 1069, and the appropriate Canadian requirements/standards, by Underwriters Laboratories Inc. (UL).

Zone/Corridor Light

The GE Model [18A430] [18B430] Zone/Corridor Light with [beige] [gray] trim ring shall be wall- or ceiling-mounted at the intersection of all corridors, and in a straight line of sight with the base console to provide a duplicate indication of any room corridor lights that cannot be readily seen from the base console.

1. Four lamps shall be under a single dome lens with barriers dividing the lens into four separate sections colored white, red, amber, and green.

a. All lamps shall have a standard bayonet base, shall operate on 12 volts, and shall be controlled by the microprocessors of the room stations assigned to the zone light. The color and illumination of each lamp shall be determined by the 4A23xx or 4A24xx series room station functions as follows:

Normal patient/staff call:	Steady white
Priority patient call:	Slowly flashing white (15 ppm)
Emergency patient call:	Fast flashing white (60 ppm)
Lavatory call:	Fast flashing red (60 ppm)
Emergency staff call:	Fast flashing green (60 ppm)

Code blue call:	Fast flashing amber (60 ppm)
Reminder:	Slowly flashing red (15 ppm)
Reminder:	Slowly flashing amber (15 ppm)
Reminder:	Slowly flashing green (15 ppm)
Presence:	Steady red
Presence:	Steady amber
Presence:	Steady green
Station aux call (programmable):	Fast strobe flashing red, amber, and green consecutively (60 ppm)
Bed aux 1 call (programmable):	Fast flashing white (60 ppm)
Bed aux 2 call (programmable):	Slow flashing white (15 ppm)
Bed cord pull out:	Slowly flashing white (15 ppm)

b. The shatterproof, heat-resistant, polymer plastic dome lens, measuring 3-9/32 inches (8.3 cm) by 2-5/8 inches (6.7 cm), shall snap off and on for easy lamp replacement.

c. The lamp sockets shall be attached to a two-gang chassis constructed of non-conductive, high impact, flame-retardant ABS Cicolac® plastic, rigidly reinforced to withstand breakage if attached to improperly installed backboxes. All surfaces shall be protected against wear due to continual usage and cleaning solutions. A 4-1/2 inch (11.4 cm) square snap-on trimplate, of the same material as the chassis, shall be provided to cover any exposed mounting hardware.

2. Two miniature switches shall be provided as part of the PCB for setting the range of room addresses/room numbers to which the zone light will respond. One switch shall set the start value L (1.32), and the other shall set the end value H (1.32). The range shall be (L.H), inclusive. It shall be possible to overlap the room coverage of any number of zone lights for common response or for individual response to their respective rooms.

3. All external connections shall be made by prewired, color-coded, plug-in connectors for easy installation, replacement, and maintenance.

4. All zone lights shall be monitored by a GE Model 9A2325 Arbitrator Monitor. If the central equipment malfunctions, all zone lights associated with multiple-station rooms or with corridor intersections shall continue to function, duplicating the individual room corridor lights within each respective zone.

a. One arbitrator monitor shall be provided for each Zone Interface Unit (ZIU) in the central equipment cabinet that is connected to one or more 18A/B430 zone lights.

b. Each arbitrator monitor shall mount in a deep two-gang backbox, optionally covered by a plain stainless steel faceplate (locally supplied), located and installed between the central equipment cabinet and the first station in each zone on the data bus.

c. Each arbitrator monitor shall be powered from the 12Vdc room station power supply providing power to the stations within that monitor's zone.

5. The GE Model 18A430 and 18B430 Zone/Corridor Light and the GE Model 9A2325 Arbitrator Monitor are Listed to UL Standard for Safety, UL 1069, and the appropriate Canadian requirements/standards, by Underwriters Laboratories Inc. (UL).

Corridor Light with Coupler

The GE Model [18A433] [18B433] Corridor Light with Coupler and [beige] [gray] trim ring shall be wall or ceiling mounted at the entrance to a room or area that has one, or up to a maximum of five each, room auxiliary, code blue, staff emergency, and lavatory (emergency) stations not associated with any patient or staff/duty stations that have intercom capabilities.

1. All three lamps (red, amber, and green) shall have a standard bayonet base, shall operate on 12 volts, and shall be controlled by the built-in coupler PCB assembly. The color and illumination of each lamp shall function as follows:

Room auxiliary call: (programmable)	Fast strobe flashing red, amber, and green consecutively (60 ppm)
Code blue call:	Fast flashing amber (60 ppm)
Staff emergency call:	Fast flashing green (60 ppm)
Emergency lavatory call:	Fast flashing red (60 ppm)

2. The lamp sockets shall be plug-in type, and shall be connected to a coupler PCB completely mounted to a two-gang chassis. The chassis shall be constructed of non-conductive, high impact, flame-retardant ABS Cicolac® plastic, rigidly reinforced to prevent breakage if attached to improperly installed backboxes. All surfaces shall be protected against wear due to continual usage and cleaning solutions. A 4-1/2 inch (11.4 cm) square snap-on decorative trim ring, of the same material as the chassis, shall be provided to cover any exposed mounting hardware.

3. The lamps shall be colored red, amber, and green and shall be under a single dome lens with barriers dividing the lens into separate sections.

4. The shatterproof, heat-resistant, polymer dome lens, measuring 3-9/32 inches (8.3 cm) by 2-5/8 inches (6.7 cm), shall snap off and on to allow easy lamp replacement.

5. The coupler PCB shall provide the intelligent electronic interface to the system and connections for the stations and/or auxiliary devices. The coupler PCB and the lamps shall be powered from separate 12Vdc power supplies. The auxiliary devices shall provide dry, maintained contact closures.

6. All external connections shall be made by prewired, color-coded, plug-in connectors for easy installation, replacement, and maintenance.

7. The 18A433 and 18B433 are Listed to UL Standard for Safety, UL 1069, and the appropriate Canadian requirements/standards, by Underwriters Laboratories Inc. (UL).

Triple Corridor Light with Coupler

The GE Model [18A435] [18B435] Triple Corridor Light with Coupler and [beige] [gray] trim ring shall be wall- or ceiling-mounted at the entrance to a room or location containing one or up to five of each of the following station types: room auxiliaries, non-audio patient stations, code blue stations, and lavatory (emergency) stations not associated with any patient or staff/duty stations that have intercom capabilities.

1. All three lamps (white, red, and amber) shall have a standard bayonet base, shall operate on 12V, and shall be controlled by the built-in coupler PCB assembly.

The color and illumination of each lamp shall function as follows:

Room auxiliary call:	Fast strobe flashing red, amber, and white consecutively (60 ppm)
Code blue call:	Fast flashing amber (60 ppm)
Patient normal call:	Steady white
Emergency lavatory call:	Fast flashing red (60 ppm)

2. The lamp sockets shall be plug-in type, and shall be connected to a coupler PCB completely mounted to a two-gang chassis. The chassis shall be constructed of non-conductive, high impact, flame-retardant ABS Cicolac® plastic, rigidly reinforced to prevent breakage if attached to improperly installed backboxes.

All surfaces shall be protected against wear due to continual usage and cleaning solutions. A 4-1/2 inch (11.4 cm) square snap-on decorative trim ring, of the same material as the chassis, shall be provided to cover any exposed mounting hardware.

3. The lamps shall be colored white, red, and amber and shall be under a single dome lens with barriers dividing the lens into separate sections.

4. The shatterproof, heat-resistant, polymer dome lens, measuring 3-9/32 inches (8.3 cm) by 2-5/8 inches (6.7 cm), shall snap off and on for easy lamp replacement.

5. The coupler PCB shall provide the intelligent electronic interface to the system and connections for the stations and/or auxiliary devices. The coupler PCB and the lamps shall be powered from separate 12Vdc power supplies. The auxiliary devices shall provide dry, maintained contact closures.

6. All external connections shall be made by prewired, color-coded, plug-in connectors for easy installation, replacement, and maintenance.

7. The 18A435 and 18B435 are Listed to UL Standard for Safety, UL 1069, and the appropriate Canadian requirements/standards, by Underwriters Laboratories Inc. (UL).

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Ordering Information

Model	Description
Corridor Light	
18A424	Corridor Light (beige trim ring)
18B424	Corridor Light (gray trim ring)
Associated Equipment	
438-134	Red Filter Kit (10 color cap filters per kit)
438-135	Amber Filter Kit (10 color cap filters per kit)
438-136	Green Filter Kit (10 color cap filters per kit)
RACO #696 (or equal)	Two-gang backbox, 3-3/4" (9.5 cm) H, 3-3/8" (8.6 cm) W, 3-1/2" (8.9 cm) D
Zone/Corridor Light & Arbitrator Monitor	
18A430	Zone/Corridor Light (beige trim ring)
18B430	Zone/Corridor Light (gray trim ring)
Associated Equipment for Model 18A/B430 only	
200-1331	Plug-In Connector, part of kit 438-931 (12 in kit, 1 required)
200-1334	Plug-In Connector, part of kit 438-934 (12 in kit, 1 required)
Associated Equipment for Model 18A/B430 and 9A2325	
RACO #265	Box, 4-11/16" (11.9 cm) square x 2-1/8" (5.4 cm) D, with square-cut two-device cover. Two-gang backbox, 3-3/4" (9.5 cm) H, 3-3/8" (8.6 cm) W, 3-1/2" (8.9 cm) D. c/w #881.886 Series Cover OR RACO #696
Corridor Lamp with Coupler	
18A433	Corridor Light with Coupler (beige trim ring)
8B433	Corridor Light with Coupler (gray trim ring)
Associated Equipment	
9A/B2105	Emergency Station (pull cord)
9A/B2106	Emergency Shower Station (pull cord)
9A/B2110	Emergency Station (pushbutton)
9A/B2115	Code Blue Station
9A/B2120	Staff Emergency Station
438-761	Auxiliary Input PCB Isolation Kit
200-1334	3-Pin Plug-In Connector, part of kit 438-934 (12 in kit, 1 required)
200-1335	15-Pin Plug-In Connector, part of kit 438-935 (12 in kit, 1 required)
RACO #696	Two-gang backbox, 3-3/4" (9.5 cm) H x 3-3/8" (8.6 cm) W x 3-1/2" (8.9 cm) D. Box, 4-11/16" (11.9 cm) square x 2-1/8" (5.4 cm) D, with square-cut two-device cover
Triple Corridor Lamp with Coupler	
18A435	Triple Corridor Light with Coupler (beige trim ring)
18B435	Triple Corridor Light with Coupler (gray trim ring) Triple Corridor Light
Associated Equipment	
9A/B2105	Emergency Station (pull cord)
9A/B2106	Emergency Shower Station (pull cord)
9A/B2110	Emergency Station (pushbutton)
9A/B2115	Code Blue Station
9A/B2130	Single Patient Station (visual only)
438-761	Auxiliary Input PCB Isolation Kit
200-1334	3-Pin Plug-In Connector, part of kit 438-934 (12 per kit, 1 required)
200-1335	15-Pin Plug-In Connector, part of kit 438-935 (12 per kit, 1 required)
RACO #265	Box, 4-11/16" (11.9 cm) square x 2-1/8" (5.4 cm) D, with square-cut two-device cover. Two-gang backbox, 3-3/4" (9.5 cm) H, 3-3/8" (8.6 cm) W, 3-1/2" (8.9 cm) D. c/w #881.886 Series Cover OR RACO #696



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Application

The pillow speaker allows patients to place calls to the master station by pressing the nurse call pushbutton. Priority of calls placed in this manner is determined by patient station type and system configuration. Deliberate or accidental removal of the pillow speaker cord from the associated patient station places a normal, staff emergency, or cord-out call to the master station, depending on the system type and configuration. When used with Model 4A2181, 4A2186, 4A2381A, or 4A2386A patient stations, the pillow speaker acts as a microphone to provide two-way voice communication between the patient and master station operator. TV audio is automatically interrupted during voice communication.

The pillow speakers are made of high impact plastic with rounded edges and are shaped to allow single-handed operation. Pushbuttons are sized and located for easy identification by the patient. The nurse call pushbutton is the largest and is centered in the unit, and along with the TV control button, features a molded raised Braille symbol for identification by visually impaired patients. The nurse call button may optionally be dimly illuminated on a continuous basis for easy identification in a darkened room. A large, easy-to-use volume control mounted in the edge of the unit allows adjustment by dexterity impaired patients.

The pillow speaker/patient station connector is a 37-pin "D" connector plug that connects to a mating receptacle on the wallplate, normally supplied by the bed manufacturer, near the floor beneath the patient station. A plug-in connector at the pillow speaker allows cord removal and replacement to provide interchangeability between systems.

All models have privacy and call assurance LEDs beneath the translucent nurse call pushbutton that, when activated, become visible at the surface of the button.

Engineers' Specifications

A combination nurse call and TV entertainment pillow speaker (Model 7A2015, 7A2016 or 7A2031) shall be provided for each bed and contain the following functional controls and physical features:

1. A 2-1/2 inch (6.4 cm) round, moisture resistant speaker with Mylar® cone for reproducing quality audio from both the master station and the television set, and that also acts as a microphone when the pillow speaker is used with a GE special purpose patient station. The speaker shall produce 90dB +/-5dB SPL between 500 and 6,300Hz, measured at a distance of 6 inches (15.25 cm) when a random noise signal of 25mW is impressed on the terminals.
2. A large edge-mounted volume control on the side of the pillow speaker for adjustment of the TV audio. During voice communications, the volume control shall be automatically removed from the circuit.
3. [Three] [Seven] non-mechanical, conductive rubber switches for control of nurse call, TV, and other auxiliary devices. The switch contacts shall be rated for 750mA maximum.

4. A nurse call pushbutton, larger than all others and designated by raised nurse and Braille symbols, for placing any one of three patient call priorities as determined by the patient station type and system configuration. When required, a staff emergency call shall optionally be placed by pressing the nurse call pushbutton twice when staff presence is registered in the room through a presence station.

5. A TV pushbutton, designated in Braille, for changing television channels. The customer shall determine the number of selectable channels at the TV set.

6. A green call assurance LED indicator that steadily illuminates dimly on a continuous basis, and brightly when a call is placed, regardless of the call's priority. The indicator shall slowly flash when any of the three reminder functions are activated.

7. A red privacy LED indicator that steadily illuminates when the station (pillow speaker) communications function is activated.

8. Flush-mounted controls in a light gray, high-impact, Cyclocoloy® C2800 plastic housing approximately 7-3/8 inches (18.75 cm) long by 3 inches (7.6 cm) wide and 1-3/8 inches (3.5 cm) thick, with no protruding corners. It shall be able to withstand a drop of 6 feet (1.8 m) without damage to the case, speaker, or control components.

9. A permanently designated overlay to identify the function of each pillow speaker pushbutton, with the exception of the nurse call pushbutton.

10. An 8-foot (2.43 m) flexible cord assembly with molded strain relief in matching color at both ends, and a multi-pin plug, or 37-pin "D" connector plug (for model 7A2031), of coordinated color to connect the pillow speaker to the wall station. Removing the cord assembly from the station's receptacle by pulling on the cord shall not damage the cord or plug. If the call cord assembly is removed, a call shall be placed to the master station, and the communications function shall transfer to the wall speaker if the station and system are so equipped. Such a call shall only be canceled from the station. The cord assembly can be reinstalled if desired. For model 7A2031, cancelling such a call shall require the cord assembly or Hill-Rom dummy plug to be reinstalled.

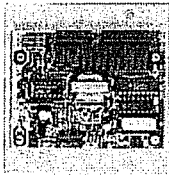
11. A metal bed sheet clamp with sufficient jaw pressure to hold the pillow speaker in place without shredding bed linens, and a plastic cord clamp to store the pillow speaker by clamping the pillow speaker cord to itself.

12. Isolation of electronic components from the surface controls, with the entire unit capable of undergoing gas sterilization without discoloration or deterioration.

13. Three additional designated pushbuttons, two for up and down application control and one for lights on/off or radio channel control when the Model 7A2016 or Model 7A2031 is used. Both of these models shall also provide a fourth, undesignated pushbutton for specific customer applications. Any or all of these controls may or may not function depending on the patient station, the system hardware choices, and the system configuration.

14. Low voltage operation and UL 1069 Listing.

Radio/TV Stepper Control



The GE Model 9A3100 Radio/TV Stepper Control is a five-channel, solid-state, microprocessor controlled patient entertainment device. It is used with the ProCare 2000® and ProCare 6000® Nurse Call Systems. The radio stepper controls up to five channels of wired radio, in addition to the hospital grade television set. The stepper switch

operates from a separate 24Vdc power supply with a maximum current rating of 0.025 amps. The printed circuit board with 25-volt matching transformers mounts to a two-gang subplate.

Compatible isolated low voltage light controls

In most cases these controllers will operate with individual pushbuttons per load, or in a sequential mode. Check with the manufacturer.

Curbell Electronics

LC-010 120V controller for two loads (dual or sequential)

LC-020 220V controller for two loads (dual or sequential)

LC-030 277V controller for two loads (dual or sequential)

Hospital Systems

"Vector" 120V controller for two loads (dual only)

Vista Lighting

90676-120 120V controller for two loads (dual or sequential)

90676-277 277V controller for two loads (dual or sequential)

90678-120 120V controller for four loads (quad or sequential)

90678-277 277V controller for four loads (quad or sequential)

Hill-ROM

P531A120-1 120V controller for two loads (dual or sequential)

P531A244-1 244V controller for two loads (dual or sequential)

P531A277-1 277V controller for two loads (dual or sequential)

Engineers' Specifications

The GE Model 9A3100 Radio/TV Stepper Control shall be located in or near the patient's room. One stepper is required per bed. The stepper switch shall provide for up to five channels of wired radio, one radio off position, and one television position.

It shall be possible to connect one hospital grade television set with on/off, channel up, and channel down capability to the television portion of the stepper switch.

The stepper switch shall be microprocessor controlled, and shall contain the necessary devices to provide the required isolation between the stepper switch and the patient's handheld pillow speaker. The printed circuit board shall mount on a two-gang aluminum subplate. The Model 9A3100 Radio/TV Stepper Control shall meet UL 1069 requirements for ancillary device isolation.

Ordering Information

Model	Description
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Pillow Speakers

7A2015	Pillow Speaker
7A2016	Pillow Speaker
7A2031	Pillow Speaker Compatible with Electronic Beds

Associated Equipment* for Models 7A2015 and 7A2016

4A2180	ProCare 4000 plus Single Patient Station
4A2181	ProCare 4000 plus Single Patient Station (pillow speaker intercom)
4A2185	ProCare 4000 plus Dual Patient Station
4A2186	ProCare 4000 plus Dual Patient Station (pillow speaker intercom)
4A2381A	ProCare 6000 Single Patient Station (pillow speaker intercom)
4A2386A	ProCare 6000 Dual Patient Station (pillow speaker intercom)
438-707	Pillow Speaker Hanger

Associated Equipment for Model 7A2031

4A2182	ProCare 4000 plus Special Purpose Single Patient Station
4A2187	ProCare 4000 plus Special Purpose Dual Patient Station
4A2382A	ProCare 6000 Special Purpose Single Patient Station
4A2387A	ProCare 6000 Special Purpose Dual Patient Station
4A3183	ProCare 2000 Special Purpose Single Patient Station
4A3188	ProCare 2000 Special Purpose Dual Patient Station
438-707	Pillow Speaker Hanger
9A3100	Wired Radio/TV Entertainment Control (requires 2-gang blank faceplate)

Associated Equipment for 9A3100 Radio/TV Stepper Control

17A355B	24Vdc Power Supply
110-2170A	24Vdc Power Supply
438-768	Radio Stepper Control PCB and Stacking Kit (To be added on the back of a 9A3100 for use with a dual bed station. The dual bed station can alternatively use two 9A3100s mounted in a four-gang box.)
176-2	Radio Distribution Cable
176-115	TV Control Cable
176-187	16 AWG Power Cable
567-549	Two-Gang Faceplate
567-539	Four-Gang Faceplate

Note: The Model 9A3100 IS NOT COMPATIBLE with smart television sets and Model 7A/B/C21xx series smart pillow speakers.

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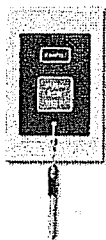
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Overview



Pull Cord Lavatory/Emergency Station

The GE Model 9A2105 (beige trim ring) or 9B2105 (gray trim ring) Pull Cord Lavatory/Emergency Station is normally located in the lavatory of each patient room and operated in conjunction with the patient station. The station can also be individually located in separate lavatories used by patients. A rubber gasket can be added to prevent moisture from entering the station. The 9A/B2105 station is NOT recommended for use in shower areas; GE recommends using the

Model 9A/B2106 station instead.

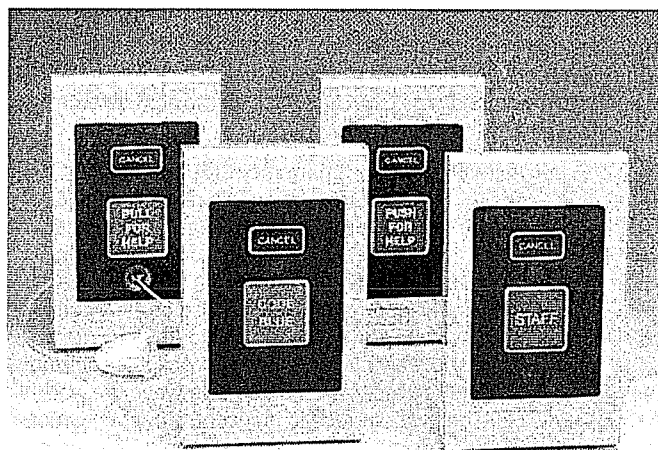
A call is placed to the base console when the 6-foot (1.8 m) cord is pulled. A call from a lavatory/emergency station automatically appears at the top of the base console display, and takes priority over all calls placed from patient or staff stations except for code blue and staff emergency calls. A lavatory/emergency call also flashes the red section of the corridor light outside the patient room. The call can only be canceled from the lavatory/emergency station that placed the call by pressing its CANCEL switch, which also extinguishes the LED and the corridor light.

Standard Features

- Microprocessor Controlled
- Pressure Sensitive Switches
- Long-Life, High Intensity LED Display
- Plug-In Connection
- Non-Conductive Surfaces

ProCare 6000™ Remote Call-in Stations

900 Series



Overview continued



Push Button Cord Lavatory/Emergency Station

The GE Model 9A2110 (beige trim ring) or 9B2110 (gray trim ring) Pushbutton Lavatory/Emergency Station is normally located in the lavatory of each patient room and operated in conjunction with the patient station. The station can also be individually located in separate lavatories used by patients.

A call is placed to the base console when the PUSH FOR HELP switch is pressed. A call from a lavatory/emergency station automatically appears at the top of the base console display, and takes priority over all calls placed from patient or staff stations except for code blue and staff emergency calls. A lavatory/emergency call also flashes the red section of the corridor light outside the patient's room. The call can only be canceled from the station that placed the call by pressing its CANCEL switch, which also extinguishes the LED and the corridor light.



Code Blue Station

The GE Model 9A2115 (beige trim ring) or 9B2115 (gray trim ring) Code Blue Station is located in a patient or staff room, and operates in parallel with the patient or staff station's CODE switch to provide another call switch separate from the room station.

The code blue station can also be used individually, associated only with a corridor light, in areas such as ICU, CCU, emergency treatment, recovery, and surgery.

A call is placed to the base console by pressing the CODE BLUE switch. This causes the amber section of the corridor light to flash, and displays the room number at the base console as a higher priority than all other calls. Code blue calls can only be canceled by pressing the CANCEL switch on the code blue station that placed the call.



Staff Emergency Station

The GE Model 9A2120 (beige trim ring) or 9B2120 (gray trim ring) Staff Emergency Station is normally located in a patient or staff room, and operates in parallel with the patient or staff station's STAFF emergency switch to provide another call switch separate from the room station. The staff emergency station can also be used

individually, associated only with a corridor light, in areas such as emergency treatment, recovery, and surgery.

A call is placed to the base console by pressing the STAFF switch. This causes the green section of the corridor light to flash, and displays the room number at the base console as a higher priority than all other calls except code blue. Staff emergency calls can only be canceled by pressing the CANCEL switch on the staff emergency station that placed the call.



Pull Cord Shower Emergency Station

The GE Model 9A2106 (beige trim ring) or 9B2106 (gray trim ring) Pull Cord Shower Emergency Station is normally located in the shower of each patient room, and operated in conjunction with the patient station. The shower station can also be individually located in separate bath, shower, or therapy areas used by patients. A commercially available caulking material is used to create a seal between the wall-plate and wall surface to prevent the entry of water

into the station. GE recommends locating the station on the same wall, and if possible above, the shower head.

A call is placed to the base console when the shower station's 6-foot (1.8 m) cord is pulled. A call from a shower station automatically appears at the top of the base console display, and takes priority over all calls placed from patient or staff stations except for code blue and staff emergency calls. A lavatory/emergency call also flashes the red section of the corridor light outside the patient room. The call can only be canceled from the station that placed the call by pressing its CANCEL switch, which also extinguishes the LED and the corridor light.

Call-in Stations Engineers' Specification

Pull Cord Lavatory/Emergency Stations

1. One or more GE Model [9A2105] [9B2105] Pull Cord Lavatory/Emergency Stations with [beige] [gray] trim rings shall be located in each patient lavatory, or in lavatories that patients normally use, as shown on the floor plans. Rubber gaskets shall optionally be used to prevent moisture from entering the stations.

The stations shall include the following functional controls and physical features:

- A concealed switch that places a priority call higher than any patient or staff station call except code blue and staff emergency calls. It shall be activated by lightly pulling a 6-foot (1.8 m) cotton cord (protected by a breakaway chain connector) connected to the station. When a call is placed, the red section of the corridor light outside the room shall flash, and the call shall display on the base console.
- A separate, pressure sensitive CANCEL switch that, when pressed, cancels the call placed from that station.
- A call assurance LED that illuminates whenever a call is placed from the station.
- A single-gang chassis constructed of non-conductive, high impact, flame-retardant ABS Cylolac® plastic, rigidly reinforced to prevent breakage if attached to improperly installed backboxes. All control surfaces shall be covered by a single laminated overlay to protect the controls and designations against wear due to continual usage and cleaning solutions. A decorative, snap-on border trim, 4-1/2 inches (11.4 cm) high and 2-3/4 inches (7 cm) wide, of the same material as the chassis, shall be provided to cover any exposed mounting hardware.

2. All external connections shall be made by prewired, color-coded, plug-in connectors for ease of installation, replacement, and maintenance.

3. The 9A2105 and 9B2105 are Listed to UL Standard for Safety, UL 1069, and the appropriate Canadian requirements/standards, by Underwriters Laboratories Inc. (UL).

Pushbutton Lavatory/Emergency Stations

1. One or more GE Model [9A2110] [9B2110] Pushbutton Lavatory/Emergency Stations with [beige] [gray] trim rings shall be located in each patient room, or in lavatories that patients normally use, as shown on the floor plans.

The stations shall include the following functional controls and physical features:

- A large, square, red, pressure sensitive PUSH FOR HELP switch that places a priority call higher than any patient or staff station call except for code blue and staff emergency calls. When a call is placed from this station, the red section of the corridor light outside the room shall flash, and the call shall be displayed on the base console.

b. A separate, pressure sensitive CANCEL switch that, when pressed, cancels the call placed from that station.

c. A call assurance LED that illuminates whenever a call is placed from the station.

d. A single-gang chassis constructed of non-conductive, high impact, flame-retardant ABS Cylolac® plastic, rigidly reinforced to prevent breakage if attached to improperly installed backboxes. All control surfaces shall be covered by a single laminated overlay to protect the controls and designations against wear due to continual usage and cleaning solutions. A decorative, snap-on border trim, 4-1/2 inches (11.4 cm) high and 2-3/4 inches (7 cm) wide, of the same material as the chassis, shall be provided to cover any exposed mounting hardware.

2. All external connections shall be made by prewired, color-coded, plug-in connectors for ease of installation, replacement, and maintenance.

3. The 9A2110 and 9B2110 are Listed to UL Standard for Safety, UL 1069, and the appropriate Canadian requirements/standards, by Underwriters Laboratories Inc. (UL).

Code Blue Station

1. One or more GE Model [9A2115] [9B2115] Code Blue Stations with [beige] [gray] trim rings shall be located in patient rooms, staff rooms, or in emergency areas as shown on the floor plans. They shall operate independently or in parallel with the room stations. The stations shall include the following functional controls and physical features:

a. A large, blue, square, pressure sensitive CODE BLUE switch that places a priority call higher than any patient, lavatory, staff emergency, or staff station call. A code blue call shall cause the amber section of the corridor light outside the room to flash, and the call shall display on the base console as the highest priority call.

b. A separate, pressure sensitive CANCEL switch that, when pressed, cancels the call placed from that code blue station.

c. A call assurance LED that illuminates whenever a call is placed from the station.

d. A single-gang chassis constructed of non-conductive, high impact, flame-retardant ABS Cylolac® plastic, rigidly reinforced to prevent breakage if attached to improperly installed backboxes. All control surfaces shall be covered by a single laminated overlay to protect the controls and designations against wear due to continual usage and cleaning solutions. A decorative, snap-on border trim, 4-1/2 inches (11.4 cm) high and 2-3/4 inches (7 cm) wide, of the same material as the chassis, shall be provided to cover any exposed mounting hardware.

2. All external connections shall be made by prewired, color-coded, plug-in connectors for ease of installation, replacement, and maintenance.

3. The 9A2115 and 9B2115 are Listed to UL Standard for Safety, UL 1069, and the appropriate Canadian requirements/standards, by Underwriters Laboratories Inc. (UL).

Staff Emergency Station

1. One or more GE Model [9A2120] [9B2120] Staff Emergency Stations with [beige] [gray] trim rings shall be located in patient rooms, staff rooms, or emergency areas as shown on the floor plans, and shall include the following functional controls and physical features:

a. A large, green, square, pressure sensitive STAFF switch that places a priority call higher than any patient, lavatory, or staff station call

except for code blue calls. A staff emergency call shall cause the green section of the corridor light outside the room to flash and shall display on the base console.

b. A separate, pressure sensitive CANCEL switch that, when pressed, cancels the call placed from that staff emergency station.

c. A call assurance LED that illuminates whenever a call is placed from the station.

d. A single-gang chassis constructed of non-conductive, high impact, flame-retardant ABS Cylolac® plastic, rigidly reinforced to prevent breakage if attached to improperly installed backboxes. All control surfaces shall be covered by a single laminated overlay to protect the controls and designations against wear due to continual usage and cleaning solutions. A decorative, snap-on border trim, 4-1/2 inches (11.4 cm) high and 2-3/4 inches (7 cm) wide, of the same material as the chassis, shall be provided to cover any exposed mounting hardware.

2. All external connections shall be made by prewired, color-coded, plug-in connectors for ease of installation, replacement, and maintenance.

3. The 9A2120 and 9B2120 are Listed to UL Standard for Safety, UL 1069, and the appropriate Canadian requirements/standards, by Underwriters Laboratories Inc. (UL).

PullCord Shower Emergency Station

1. A GE Model [9A2106] [9B2106] PullCord Shower Emergency Station with a [beige] [gray] faceplate shall be located in each shower, bath, or hydrotherapy room for patients, as shown on the floor plans. A commercially available caulking material, suggested by the manufacturer, shall be used to create a seal between the wallplate and wall surface to prevent water from entering the station.

The station shall be located on the same wall, and if possible above, the shower head. The station shall include these functional controls and physical features:

a. A concealed switch that places a priority call higher than any patient or staff station call except code blue and staff emergency calls. It shall be activated by lightly pulling a 6-foot (1.8 m) nylon cord connected to the station. When a call is placed, the red section of the corridor light outside the room shall flash, and the call shall display on the base console.

b. A separate, pressure sensitive CANCEL switch that, when pressed, cancels a call placed from that station.

c. A call assurance LED that illuminates whenever a call is placed from the station.

d. A single-gang chassis constructed of non-conductive, high impact, flame-retardant ABS Cylolac® plastic, rigidly reinforced to prevent breakage if attached to improperly installed backboxes. All control surfaces shall be covered by a single laminated overlay to protect the controls and designations against wear due to continual usage and cleaning solutions. The wallplate shall be 4-1/2 inches (11.4 cm) high and 2-3/4 inches (7 cm) wide, and shall be secured to the backbox with gasket-sealed screws.

2. All external connections shall be made by prewired, color-coded, plug-in connectors for ease of installation, replacement, and maintenance.

3. The 9A2106 and 9B2106 are Listed to UL Standard for Safety, UL 1069, and the appropriate Canadian requirements/standards, by Underwriters Laboratories Inc. (UL).

ProCare Series Accessories

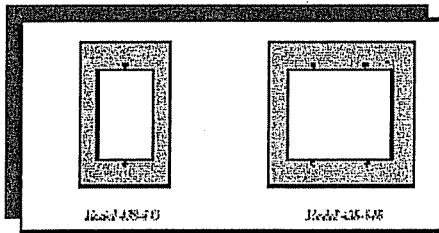
The GE Model 438-645 Single-Gang Rubber Gasket and 438-646 Two-Gang Rubber Gasket are used with lavatory/emergency stations in lavatories, bath, and shower rooms where moisture is a problem. The gasket provides waterproofing for the station when placed between the wall and faceplate.

The GE Model 438-707 Wall-Mounted Pillow Speaker Hanger kit consists of the hanger, a label, and two mounting screws. The hanger accepts all GE 7A2000 series pillow speakers.

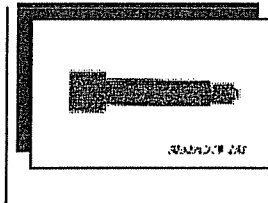
The GE Model 570-130 Switch Plug provides for call origination from any wallplate call cord receptacle except pillow speaker receptacles. It cannot be used in multipin pillow speaker receptacles having a recessed phone plug.

The GE Model 570-131 Dummy Plug is required for all unused call cord receptacles to prevent the placement of calls on the system from vacant receptacles.

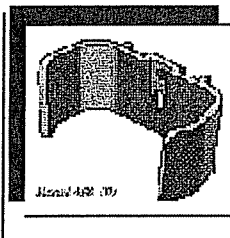
Single-gang and Two-gang Rubber Gaskets



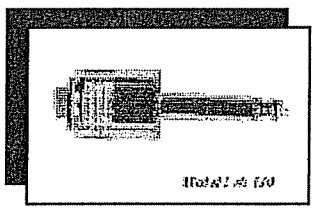
Dummy Plug



Wall-Mounted Pillow Speaker Hanger



Switch Plug



Accessories Engineers' Specification

Single-gang and Two-gang Rubber Gaskets

The Rubber Gaskets used for waterproofing lavatory/emergency stations shall be GE Model [438-645] [438-646] or approved equal. The rubber gasket, when placed between the wall and faceplate, shall provide waterproofing for the associated station and shall withstand washing with water and normal cleaning materials.

Wall-Mounted Pillow Speaker Hanger Kit

The Wall-Mounted Pillow Speaker Hanger shall be GE Model 438-707 or approved equal. The hanger shall accept all GE 7A2000 series pillow speaker models. The hanger shall provide recesses for two mounting screws to prevent the screws from interfering with hanging the pillow speaker.

Switch Plug

The Switch Plug shall be GE Model 570-130 or approved equal. It shall consist of a momentary pushbutton switch mounted in a nickel-plated metal cylinder 3/4 inch (1.9 cm) in diameter and 13/16 inch (2.1 cm) long, with a plug suitable for use in the call cord receptacle of any GE wallplate. The assembly shall be shockproof, shall withstand washing and sterilizing, and shall be Underwriters' Laboratories, Inc. (UL 1069) Listed.

Dummy Plug

One GE Model 570-131 Dummy Plug or approved equal shall be supplied for each bedside station specified. The plug shall be made of black Nylatron GS plastic to fit the call cord receptacles on the bedside stations. The plug shall be shockproof and shall withstand washing and sterilizing.

Accessories Specifications

Single-Gang Rubber Gasket & Two-Gang Rubber Gasket

HOUSING	1/8" (0.32 cm) thick rubber (neoprene) gasket
COLOR	Black
SAFETY	Provides waterproofing for associated station, reducing possibility of shorting
CLEANING	Withstands washing with water and normal cleaning materials

Wall-Mounted Pillow Speaker Hanger Kit

MATERIAL	Cycloy®
COLOR	Gray
SAFETY	Shockproof
CLEANING	Can be washed and sterilized

Switch Plug

HOUSING	Heavy nickel plated metal, 3/4" (1.9 cm) in diameter, 13/16" (2.1 cm) long
SWITCH	Non-locking pushbutton
PLUG	Fits any call cord receptacle except pillow speaker receptacle
COLOR	Bright nickel
SAFETY	Shockproof
CLEANING	Can be washed and sterilized (not immersible)

Dummy Plug

HOUSING	Nylatron GS plastic
PLUG	Fits any call cord receptacle
COLOR	Black
SAFETY	Shockproof
CLEANING	Can be washed and sterilized

Ordering Information

Model	Description
9A2105	Pull Cord Lavatory/Emergency Station with beige trim ring
9B2105	Pull Cord Lavatory/Emergency Station with gray trim ring
9A2110	Pushbutton Lavatory/Emergency Station with beige trim ring
9B2110	Pushbutton Lavatory/Emergency Station with gray trim ring
9A2115	Code Blue Station with beige trim ring
9B2115	Code Blue Station with gray trim ring
9A2120	Staff Emergency Station with beige trim ring
9B2120	Staff Emergency Station with gray trim ring
9A2106	Pull Cord Shower Emergency Station with beige trim ring
9B2106	Pull Cord Shower Emergency Station with gray trim ring

Associated Equipment for all models

200-1337	6-Pin Plug-In Connector, part of 438-937 (12 in kit, 1 required)
18A433 (beige) or 18B433 (gray)	Station coupler mounted in a three-section corridor light; required if the 9A/B2105 is not associated with a patient, staff, or duty station.
438-645	Rubber Gasket Kit
RACO #695 (or equal)	Single-Gang Masonry Backbox 3-3/4" (9.5 cm) H, 1-31/32" (5 cm) W, and 3-1/2" (8.9 cm) D

Note: Do not use gangable backboxes of any kind.

Associated Equipment for Lavatory Pull Cord Station and Shower Emergency Stations only

438-645	Rubber Gasket Kit (optional)
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Note: Do not use gangable backboxes of any kind.

GE Security

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Overview

The central equipment for the ProCare 6000® Advanced Healthcare Communications System and ProCare 2600 consists of one Model 12A3605 cabinet and additional expansion cabinets that can be mounted in close proximity, or separated for ease of installation. Each cabinet requires a separate backbox having either a surface or flush cover with a locking hinged door to provide access to the adjustment controls on the printed circuit boards (PCBs). Each cabinet requires a 24Vdc power supply, located in a separate backbox having either a surface cover or a flush cover with a locking hinged door.

Each cabinet contains a slot-independent card cage with 14 slots to support a plug-in DC-DC converter module, a file server and/or network expansion PCB, and a combination of up to 12 master station PCBs (MIUs), station zone PCBs (ZIUs), and optional telephone PCBs (Telcos).

Standard Features

Central Equipment Cabinet (12A3605)

- ProCare 6000 cabinet and card cage provides flexible system configuration options
- 14 Universal card slots accept AC-DC Power Converter, File Server, MIU, ZIU, Telco, and Network Expander PCBs
- Lockable door improves system security
- Single cabinet power supply
- PCBs provide LED diagnostic indicators
- Convenient connectors simplify installation and maintenance

Power Supply (17A355B, 17B355B)

- Continuous Duty Operation
- Regulated 24Vdc at 3.2 amps
- Wide Input Voltage Range
- Electronic Foldback Output Protection
- Flush Mounting

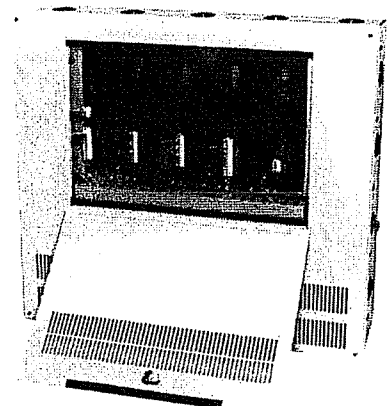
Room Station Power Supply (17A/B451, 17A/B452, 17A/B453)

- Continuous Duty Operation
- 110Vac, 50/60Hz
- Electronic Foldback Output Protection
- Flush Or Surface Wall Mounting
- Hallway Page Adapter (9A2175)
- Plug-In Connection
- Color-Coded Wiring
- Four-Gang Construction

ProCare 6000™ Central Equipment

Models: 12A3605, 17A355B, 17B355B, 17A/
B451, 17A/B452, 17A/B453, 9A2175

Central Equipment Cabinet
(shown with typical installed PCBs)



Application

A maximum networked system can contain up to 20 nodes (a combination of MIU, ZIU, and Telco PCBs). The system can contain any quantity of MIU PCBs, not to exceed the 20-node limit when combined with the ZIUs and Telcos.

When more than one cabinet is required due to system capacity and/or networking requirements (capture or swing rooms), the first cabinet contains the file server (FS) PCB, and all cabinets require a network expansion PCB.

Although the Model 12A3605 Central Equipment and its associated PCBs are specified for use with the ProCare 6000 System, they can also be used to upgrade a ProCare 4000 plus® System. However, it is important to note that when used with the ProCare 4000 plus, the Model 4A3610B nurse console and the Model 4A21xx series room stations will assume only the functions and features relative to the ProCare 4000 plus System, as well as expand the capabilities of a ProCare 2000 through the implementation of a ProCare 2600 Interface Kit.

Engineer's Specification

A combination of one GE Model 12A3605 Central Equipment Cabinet and additional expansion cabinets shall be mounted in close proximity to each other or separated for ease of installation, as shown on the floor plans, to serve the quantity and type of remote stations of the system.

1. Each cabinet shall include the following required units:

- a. A GE Model 8A245A Backbox, which shall be a flush- or surface-mounted enclosure, 24 inches (61 cm) high, 26-1/2 inches (67 cm) wide, and 6-3/4 inches (17 cm) deep. It shall be constructed of 16-gauge cold-rolled steel with a dark gray enameled finish.
- b. A GE Model 110-3621 Slot-Independent Card Cage, which shall accept up to 14 system-functional, plug-in printed circuit boards.
- c. A GE Model 110-3622 DC-DC Power Converter Unit (PCU), which shall provide the correct power (obtained from its individual 24Vdc central equipment power supply) to the other PCBs in the card cage.

2. A combination of equipment cabinets shall be capable of supporting a system from one staff console and up to 600 stations (1,200 beds), to four or more staff consoles and up to 320 stations (640 beds), depending on other options selected.

3. The system shall contain a maximum of 20 nodes (a combination of MIU, ZIU, and Telco PCBs).

4. The system cabinets shall contain the following plug-in printed circuit boards (PCBs), based on the quantity of each type, the configuration of the stations, and the required operational features the cabinet must support. Each PCB shall plug into the card cage, occupy any slot, and be secured in place.

a. One GE Model 110-3613D File Server (FS) PCB shall be installed in any one of the equipment cabinets to serve as a host for the total system. The FS shall have LED indicators that continuously indicate its operational status.

The FS shall have an RS-232 serial interface port with a front-mount DB-9 plug-in termination for connection to optional supporting systems such as pocket paging, wireless telephones, and/or ARMS ip through an ESM interface. The FS shall also include a separate front-mount connector for plug-in termination of a terminal to be used for system-wide configuration and diagnostics.

b. One GE Model 110-3614A Zone Interface Unit (ZIU) PCB shall be required for each group of up to 32 patient, staff/duty, and independent non-audio stations, or for each predetermined zone of coverage by a staff console. Each card cage shall accommodate up to six ZIUs. The total number of ZIUs shall not exceed the combination of 20 nodes distributed among all card cages of a networked system with a single file server.

The ZIU shall have LED indicators that continuously indicate its operational status.

c. One GE Model 110-3616A Staff Console Interface Unit (MIU) PCB shall be required for each base master station. Each card cage shall accommodate up to six MIUs. The total number of MIUs shall not exceed the combination of 20 nodes distributed among all card cages of a networked system with a single file server.

The MIU shall have LED indicators that continuously indicate its operational status.

d. One GE Model 110-3628B Telco Station Unit (TSU) PCB shall be provided for each audio amplifier/talkback control unit, to allow remote answering of calls through a standard analog DTMF telephone system with or without an optional wireless telephone network.

The Telco shall have LED indicators that continuously indicate its operational status.

e. A GE Model 110-3609 Network Expander (NE) PCB shall be provided and installed in each cabinet of systems with more than one cabinet.

f. Model 438-735 Blank Panels of matching design and color shall be provided to fill any slot not occupied by a functional PCB.

5. One GE Model 110-2250A Autotrol/Amplifier Module shall be provided and installed for each base staff console, and/or for each combination of one or more ZIUs, as needed to provide the required number of simultaneous conversation paths.

6. One GE Model 110-3650 Autotrol/Amplifier Module shall be provided and installed in place of the 110-2250A for each master station (MIU), and/or for each station zone (ZIU), when audio paging is required. The amplifier shall provide 15 watts of balanced 25V output with equal frequency response, input sensitivity, and controls to that of the 110-2250A.

7. Provisions shall be made for attaching a surface- or flush-mounted cover to the central equipment cabinet. The cover shall have a locking, hinged front door that allows access to the PCBs and their respective controls without removing the cover.

8. The 12A3605 and combinations shall be Listed by UL Standard for Safety, UL 1069, and the appropriate Canadian requirements and cUL standards, by Underwriters Laboratories Inc.

Specifications

Power Requirements	24Vdc (from GE Model 110-2170A Power Supply)
Power Outputs	GE Model 110-3622 AC-DC Power Converter outputs include +24Vdc, +8Vdc and +/-12Vdc (one 110-3622 required per cabinet)
Dimensions (8A245A Backbox)	Height: 24" (61cm) Width: 26.5" (67cm) Depth: 6.75" (17cm) 16-gauge steel painted black
Backbox Covers (order separately)	Flush: 110-3610 Surface: 110-3620
Blank Panel Fillers (order separately)	438-735

Components

Hallway Page Adapter (Model 9A2175)

Description

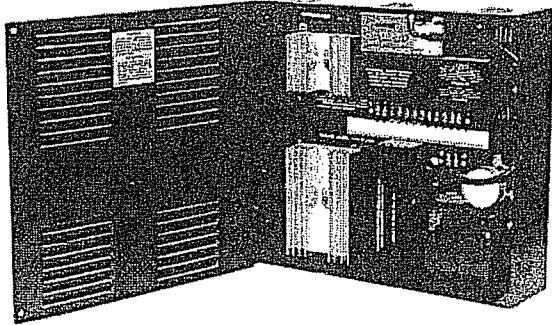
The GE Model 9A2175 Hallway Page Adapter is located at a central location in corridors or in rooms that require paging. The paging adapter allows connection of 25-volt ceiling speakers or of an external amplifier to the ProCare 6000® audio bus.

Engineers' Specification

The GE Model 9A2175 Hallway Page Adapter shall be wall-mounted at a central location, such as the entrance to a room or area that has one or more 25-volt ceiling speakers installed.

1. The page adapter shall be comprised of a coupler PCB and a 4PDT plug-in relay mounted to a four-gang chassis constructed of cold-rolled steel and painted charcoal gray. A snap-on beige metal cover shall be provided to cover any exposed mounting hardware.
2. The coupler PCB shall provide the intelligent electronic interface to the ProCare 6000 System and connections for the 4PDT relay to provide a dry, maintained contact closure when selected.
3. The page adapter shall be capable of connection to 25-volt speakers or to an external amplifier with 75-volt output.
4. All external connections shall be made by prewired, color-coded, plug-in connectors and screw terminations for easy installation, replacement, and maintenance.
5. The GE Model 9A2175 Hallway Page Adapter shall be Underwriters Laboratories, Inc. Listed (UL 1069).

Power Supply (Model 17A355B/17B355B)



Description

The GE Model 17A355B/17B355B Power Supply provides continuous power to operate all GE nurse/patient communication systems. It operates from a primary source that can range from 105Vac -125Vac, and provides regulated 24Vdc at 3.2 amps, with overload protection. The output operates under an electronic fold back principle and is self-restoring when the overload or short condition is removed.

The primary power supply can optionally be accompanied by a GE standby power supply. The optional power supply chassis mounts in the same cabinet as the primary supply. When the optional unit is included in the system, the entire unit is identified as Model 17A355B-SB. (SB indicates the inclusion of the optional standby power supply.) The standby supply allows uninterrupted power transfer in case of primary AC power failure, and includes a self-contained recharger. The maintenance-free and completely sealed battery pack is continuously recharged during normal operation of the system, and is protected from short circuit system failure. Screw terminals are provided for remote indication of system overload or system power failure.

Engineers' Specification

The GE Model [17A355B] [17B355B] Power Supply, shall be [flush] [surface] mounted and located adjacent to the nurse call control equipment cabinet, and shall contain one Model 110-2170A Power Supply Chassis.

1. The power supply shall operate on a continuous duty basis at temperatures between 0° and 50° C from a primary line voltage between 105Vac and 125Vac, 60Hz, without the use of primary transformer taps. The primary transformer taps shall be protected by a replaceable 2AB type 2.0-amp slow-blow fuse for 105-125Vac.
2. The output shall be regulated 24Vdc with protection against loads exceeding 3.2 amps. Line-to-load regulation shall not exceed 2-1/2% with ripple and noise remaining below the 10mVrms level.
3. Output protection against overload or shorts shall be provided by an electronic foldback circuit set to limit the volt-ampere output to less than 100VA.

4. The power output shall be restored automatically upon removal of overload without resetting circuit breakers or replacing fuses. Power supplies using resettable, replaceable or non-replaceable fuses in the output shall not be acceptable.

5. Input connections shall be wire nuts, and output connections shall be screw terminals. The primary input shall be protected by a separate compartment.

6. All components shall be modular in design for mounting into one half of a Model 145-184 Backbox measuring 15 inches (38.1 cm) wide, 14-1/2 inches (36.8 cm) high and 4 inches (10.2 cm) deep. The flush wall-mounted 110-2190 door shall be 16 inches (40.6 cm) high and 16-1/2 inches (42 cm) wide. The surface wall-mounted 110-2191 door shall be 14-3/4 inches (37.5 cm) high and 15-1/4 inches (38.7 cm) wide.

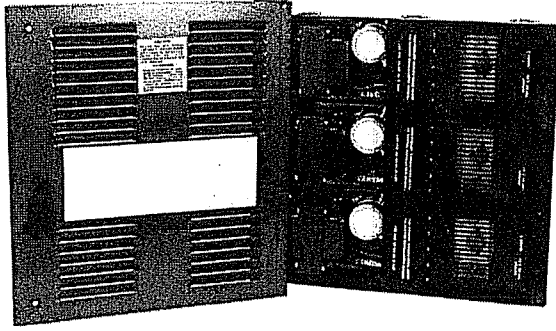
7. The 145-184 Backbox shall accommodate two 110-2170A Power Supply Chassis.

Optional Features

Standby Power Supply (-SB)

1. Failure of primary AC power or of the system power supply shall cause the standby power supply to automatically transfer into the system without interruption. Full operation of the system shall be maintained (both light/tone signals and two-way voice communication).
2. The output shall maintain the system for a minimum of six minutes at full load until the building emergency power is on line. The standby shall then be automatically transferred out of the system.
3. The battery pack shall be completely sealed within a high-impact polystyrene case, shall be rechargeable, and shall require no maintenance (no periodical discharge and recharge cycle).
4. The battery shall be protected against system overload or shorts and shall automatically be removed if those conditions exist. If the battery is totally discharged due to extended power output, no permanent cell reversal shall take place. Additional battery packs may be added at any time to extend the on-line capability.
5. A float charger operating from 120Vac shall be built in to float charge the batteries during normal operating conditions. A minimum of 300 complete chargedischarge cycles shall be possible.
6. Control terminals shall provide remote light and tone indications for primary AC power failure or power supply failure, system overload or shorts, and/or battery disconnect.
7. AC power shall be supplied by a line cord that plugs into a receptacle on the 110-2170A Power Supply Chassis.
8. The complete unit, including batteries, shall be Underwriters' Laboratories Listed, and shall mount in an area measuring 14-1/2 inches (36.8 cm) by 6 inches (15.2 cm) directly below, and within the same cabinet as, the GE Model 110-2170A System Power Supply.

Room Station Power Supply 17A453



Description

The GE Room Station Power Supply can be either flush or surface mounted. The supply consists of one (17A/B451), two (17A/B452), or three (17A/B453) 110-2185A power supply modules mounted in a GE 145-184 Backbox. The power supply is generally located near the room stations it serves. The power source is 110Vac, 50/60Hz at 96 watts for each module provided. The primary circuits are protected by a fuse in each module. Each module supplies the power required to operate 32 four-section corridor lights on a 20% load capacity or a combination of 32 4A23xx series room stations, couplers or zone lights, provided that the proper size cable is used to accommodate the distance of the furthest station from the power supply. The rated output of each module is 12Vdc at 3.2 amps. The output protection is provided by an electronic foldback circuit. Each module is equipped with controls for overcurrent, overvoltage, and overvoltage crowbar trip adjustments.

Engineers' Specification

The room station power supply shall be GE Model [17A451 flush mounted or 17B451 surface mounted, consisting of one 110-2185A Power Supply Module] [17A452 flush mounted or 17B452 surface mounted, consisting of two 110-2185A modules] [17A453 flush mounted or 17B453 surface mounted, consisting of three 110-2185A modules]. The power supply shall generally be located near the specific room stations it serves. The power source shall be 110Vac, 50/60Hz at 96 watts for each 110-2185A module. Each 110-2185A module shall be protected by a fuse in the primary circuit and by an electronic foldback circuit in the output. Each module shall supply the necessary power to operate 32 four-section corridor lights or a combination of 32 4A23xx Series room stations, 18A433 couplers or 18A430 zone lights, providing that the proper size cable is used to accommodate the distance of the furthest station from the power supply. The rated output of each 110-2185A module shall be 12Vdc at 3.2 amps. Each module shall be equipped with controls for overcurrent, overvoltage and overvoltage crowbar trip adjustments.

The room station power supply shall be mounted in a GE Model 145-184 Backbox measuring 15 inches (38.1 cm) wide, 14- 1/2 inches (36.8 cm) high, and 4 inches (10.2 cm) deep. The flush mounted door (GE Model 110-2190) shall be 16 inches (40.6 cm) high and 16-1/2 inches (42 cm) wide. The surface mounted door (GE Model 110-2191) shall be 14-3/4 inches (37.5 cm) high and 15-1/4 inches (38.7 cm) wide.

The power supply shall be Underwriters' Laboratories, Inc. Listed (UL 1069).

Specifications 110-2185A Power Supply Module

Power Source	110Vac
Input Power	96W
Input Fuse	2A (110Vac)
Rated Output	12Vdc at 3.2A
Output Protection	Electronic overvoltage and current limiting
Adjustments	Overcurrent, overvoltage and overvoltage crowbar trip
Terminations	Separate screw terminal strips
Finish	Flat black enamel
Dimensions	4-3/4" (12.1 cm)H by 14-1/4" (36.2 cm) W and 3-7/8" (9.8 cm) D
Net Weight	8 lb, 6 oz (3.75 kg)

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Ordering Information

Model	Description
12A3605	Central Equipment Cabinet
17A355B/17B355B	Power Supply
17A/B451 17A/ B452 17A/ B453 110-2185A	Power Supply Modules
110-2170A	Auxiliary Power Supply
9A2175	Hallway Page Adapter
Associated Equipment for Central Equipment Cabinet	
4A3610B	Base Staff Console
110-3610	Flush Cover/Door
110-3620	Surface Cover/Door
Associated Equipment for Hallway Page Adapter	
200-563	3-Pin Plug-In Connector, part of 438-520 kit (12 in kit, 1 required)
200-564	15-Pin Plug-In Connector, part of 438-521 kit (12 in kit, 1 required)
RACO #698	Four-gang masonry backbox, 3-3/4" (9.5 cm) high by 7-13/32" (18.8 cm) wide and 3-1/2" (8.9 cm) deep.
<i>Note: Do not use gangable backboxes of any kind.</i>	



imagination at work

DUKANE**CORRIDOR LIGHT**

Features

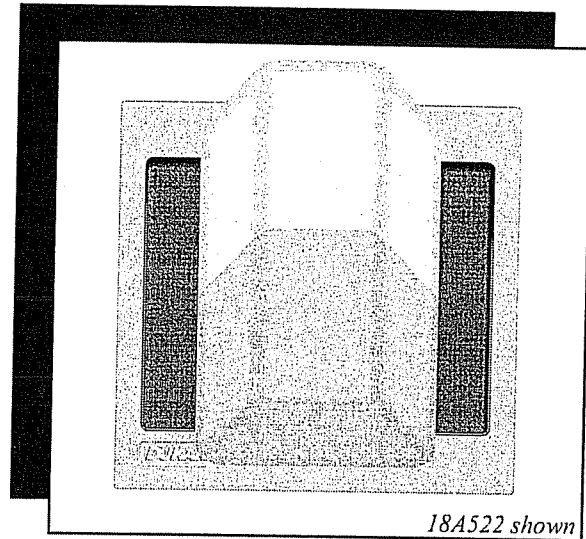
- *Multiple Priority Call Identification*
- *Excellent Light Separation*
- *Large Surface for Room Identification*
- *Easy Lamp Replacement*
- *Choice of Section Color*
- *Non-Conductive Surfaces*

General Description

The Dukane Model 18A521 Series Corridor Lights are designed for operation in the Dukane ProCare 1000, ProCare 1250, or ProCare 2000* Systems. The lights are usually wall or ceiling mounted outside the entrance to each patient room, staff duty area, special emergency treatment room, and lavatory/shower room. They are available as single, dual, triple, and quadruple lights, with steady or flashing indications and provisions for any combination of white, red, amber, or green segments depending on the type of call (priority) placed from the associated station(s).

Engineers' Specifications

1. The Model [18A521 Single] [18A522 Dual] [18A523 Triple] [18A524 Quadruple] Corridor Light shall be provided for [wall] [ceiling] mounting at the entrance to each room as shown in the floor plans.
 - a. The snap-in lamp assemblies shall be secured to a two-gang chassis constructed of non-conductive, high impact, flame retardant ABS Cyclocac[®] plastic, rigidly reinforced to withstand breakage if attached to improperly installed backboxes.



**(Engineers'
Specifications)**

- b. All lamps shall be rated for 28V and shall have a standard bayonet base for easy replacement. The white section shall steadily illuminate when a normal call is placed from a patient station associated with the light. The red lamp shall flash for any lavatory emergency priority call. A green and/or amber section shall be added as required by the application, as indicated on the floor plans or separate specifications, or by replacing the red high temperature colored filter with one of a different color to indicate a staff emergency (green) or code blue (amber) call.
 - c. The lamps shall be enclosed by a single, shatterproof, heat resistant polymer plastic dome lens 3-9/32 inches (8.3 cm) high and 2-5/8 inches (6.7 cm) wide, divided into two, three, or four sections by metal barriers. The lens shall have smooth surfaces for individual identification and shall snap on and off for easy lamp replacement.
 - d. A decorative, snap-on border trim 4-1/2 inches (11.4 cm) square, of the same material as the chassis and in contrasting color, shall be provided to cover any exposed mounting hardware.
- 2. All external connections shall be made on a pre-coded basis for division of functions, and shall be color-coded to match the manufacturer's branded type and size cable for easy installation, replacement, and maintenance.
 - 3. The installed light, designed and manufactured to meet Underwriters' Laboratories Inc. standards, is Listed under UL 1069 and the Canadian (CSA) equivalent.

**Associated
Equipment**

RACO #696 (or equal)

Two-Gang Masonry Backbox 3-3/4" (9.5 cm) high x 3-5/8" (9.2 cm) wide x 3-1/2" (8.9 cm) deep

Note:

DO NOT use gangable backboxes of any kind.

Model 438-134

Red Filter Kit (10 filters per kit)

Model 438-135

Amber Filter Kit (10 filters per kit)

Model 438-136

Green Filter Kit (10 filters per kit)

Printed in USA

*ProCare 2000 is a registered trademark of Dukane Corporation.
Cycloc is a registered trademark of General Electric.*