



First Sentry Bank

July 2, 2008

ACCOUNT PARTY

Surdyne Security, Inc.
821 9th Street
Huntington, WV 25701

BENEFICIARY

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington St. East
P.O. Box 50130
Charleston, WV 25305-0130

AMOUNT: \$4,060.19 USD

LETTER OF CREDIT NUMBER: 220

We hereby open in your favor our Irrevocable Standby Letter of Credit #220 for the Account of Surdyne Security, Inc. for a sum or sums not exceeding a total of \$4,060.19 (Four Thousand sixty and 19/100 Dollars) available by your draft(s) at sight drawn on us.

The purpose of this letter of credit is to back a bid for Surdyne Security, Inc. to provide and install a security system in the ABC warehouse located in Nitro, WV (RFQ # ABC95).

Your signed statement certifying: "The amount of our draft represents funds due as a result of the failure of Surdyne Security, Inc. to bid properly on the security system for the State ABC warehouse in Nitro, WV, demand for payment has been made and payment has not been received by us from Surdyne Security, Inc. or any other source."

Copy of items that remain incomplete according to bid process

Partial drawings are permitted.

Each draft must bear upon its face the clause "Drawn under First Sentry Bank Irrevocable Letter of Credit Number 220 dated July 2, 2008."

Except so far as otherwise expressly stated herein, this Letter of Credit is subject to the Uniform Customs and Practice for Documentary Credits (1983 Revision) International Chamber of Commerce Publication No. 400.

We hereby agree with you that drafts drawn under and in compliance with the terms of this Letter of Credit will be duly honored if presented to the above mentioned drawee bank on or before October 2, 2008. Negotiation under this Letter of Credit is restricted to First Sentry Bank.

SURDYNE SECURITY, INC.

821 9th Street

Huntington, WV 25701

(304) 523-4260

RECEIVED

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PURCHASING DIVISION
STATE OF WV

Surdyne Security, Inc.
 821 9th Street
 Huntington, WV 25701
 (304) 523-8260

Estimate

Date	Estimate #
7/1/2008	1318

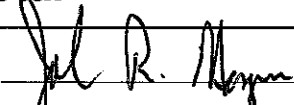
Name / Address
ABCC Warehouse 97 Independent Avenue Nitro, WV 25143-2508
Project

Ship To
Terms
Net 30 Days

Item	Description	Qty	Cost	Total
	*** Security ***			
Factory Technician	Motors for Gate Controller, Trenching and Patching	1	32,875.00	32,875.00
D9412GV2-C	Radionics D9412 Commercial Burglary Control/Communicator	1	639.00	639.00
D1255	D1255 Alpha Numeric Keypad	1	198.00	198.00
D9210B	Radionics 26 bit Wiegand interface	4	261.00	1,044.00
D8125	Popex Zone Expander	1	90.00	90.00
D9127U	Radionics addressable module. (Popit)	35	31.50	1,102.50
D8229	Radionics Access Keypad, 26 bit Wiegand Output, Weatherproof	4	365.40	1,461.60
OP-AX130T	Optex America 130' Twin Photoelectric Beam Detector.	1	214.11	214.11
RU-S6514	Rutherford Controls Electric Door Strike, Field Selectable Voltage and Lock Mode	2	179.98	359.96
Arrow 1801	Arrow 1801 Rim Exit Device	2	962.44	1,924.88
PI-APM1	Access Control Pedestal for Gate Entry	2	188.98	377.96
PI-APMGBL	Universal Gang Box-Large	2	125.12	250.24
SR-2315AL	Sentrol Overhead Door Contact, Rail Mount	25	44.10	1,102.50
SR-1085T	Sentrol Surface Mount Door Contact, 3/4" gap	10	2.25	22.50
BK-P2WP	System Sensor Horn/Strobe, White, Unlabelled	1	62.51	62.51
SSP-3	MG Electronics SSP-3 Piezo Super Siren	2	18.00	36.00
BA1802C	Wire: 18/2 Stranded, PVC, 1000'	2	140.40	280.80
TC1804C 1R	Wire: 18/4 Tray Cable, Heavy Duty Jacket, Direct Burial/UV Resistant, 1000' spool	1	550.80	550.80
	*** CCTV ***			
EVR32-240-1000	Toshiba EVR Series DVR, 32 Channel, 240 IPS, 1 TB HDD	1	12,830.40	12,830.40
ADMNM1LCD17	American Dynamics 17" Security Monitor, 1280x1024 Resolution, 400:1 Contrast Ratio	1	1,056.60	1,056.60
GL48WM	Great Lakes Wall Mounted Equipment Rack with Plexiglass Door	1	997.00	997.00
WM7217WS	Great Lakes Fan Assembly w/Fan guards and two 75 CFM Fans	1	219.78	219.78
WM7206FM	Great Lakes Stationary Front Mount Shelf	1	59.94	59.94
BC2002HQDN-12-24	Bolide Full Body Camera, Sony Super HAD CCD, 540 TV Lines, 0.14 Lux, 12/24V	10	306.00	3,060.00
BP0019-12	Bolide 2.8-12mm Varifocal Autoiris Lens	10	135.00	1,350.00
BP0034	Bolide 15" Exterior Housing w/Heater and Blower	6	68.40	410.40

Thank you for this opportunity! Your consideration is greatly appreciated.	Total
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Submitted By: _____



John R. Haynes
 President

Surdyne Security, Inc.
 821 9th Street
 Huntington, WV 25701
 (304) 523-8260

Estimate

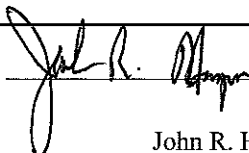
Date	Estimate #
7/1/2008	1318

Name / Address
ABCC Warehouse 97 Independent Avenue Nitro, WV 25143-2508
Project

Ship To
Terms
Net 30 Days

Item	Description	Qty	Cost	Total
MCM6W	ARM Electronics Camera Mount; Wall, Ceiling, or T-Bar Mount, Beige	4	17.98	71.92
SG620R	Loxex Dummy Dome Camera	19	32.40	615.60
CXDB0601 1R	Wire:RG6, 95% Braid, Outdoor/Burial, 1000' spool	1	342.00	342.00
BA1802C	Wire: 18/2 Stranded, PVC, 1000'	2	126.36	252.72
CX5901 1R	Wire: RG59/U, #20awg, 95% Braid, 1000'	2	257.58	515.16
Miscellaneous	Cable, conduit, connectors ,lift rental, etc.	1	3,375.00	3,375.00
Installation	Installation of Security & CCTV System.	80	168.1875	13,455.00
	State Sales Tax		6.00%	0.00

Thank you for this opportunity! Your consideration is greatly appreciated.	Total	\$81,203.88
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Submitted By: 
 John R. Haynes
 President

West Virginia Alcohol Beverage Control Administration
Warehouse Security System
Bid Schedule

Revised June 16, 2008

Please list the pricing for all equipment listed below (total cost is to include all fees associated with installation and materials):

QUANTITY	DESCRIPTION	UNIT COST	TOTAL COST
4	Electric Touch Pads/Reader	\$365.25	\$3458.00
1	Motion Sensor (installed to trigger front gate closer)	214.11	1714.11
1	Security Control Panel	927.00	2927.00
2	Front Gate Motors	498.00	32,875.00
10	480+ Resolution Interior/Exterior Cameras "Day, Night and DSP"	306.00	4,760.00
6	Weatherproof Outdoor Camera Housing	68.40	810.40
10	2.8 - 12mm Varifocal Auto Iris Lens	135.00	1550.00
19	Fake Cameras	32.40	3115.60
1	Digital Recording System (with 18 camera recording capacity)	12,830.40	14,330.00
1	Multiple Screen Viewer (should permit viewer to switch between 32 camera views)	1,056.60	1525.40
1	Security Horn with strobe	62.51	462.51
25	Overhead Door Sensors	44.10	5102.50
10	Screw Mount Terminal Contact Door Sensors	2.25	2352.50
2	Electric Strike	179.98	2059.98
2	Exit Devices	962.44	2524.88
1	Year One Maintenance Contract (Starting and paid for on completion of Security System)	0.00	0.00
1	Year Two Maintenance Contract (Payment to be made upon renewal date)	1000.00	1000.00
1	Year Three Maintenance Contract (Payment to be made upon renewal date)	1000.00	1000.00

2	Indoor Outdoor 12 vdc Siren	\$18.00	\$236.00
1	Internet Connection	0.00	400.00
TOTALS			\$81,203.88

See attached Warehouse Security System Equipment/Parts List.

West Virginia Alcohol Beverage Control Administration
Warehouse Security System
Equipment/Parts List
Revised 06/16/08

Equipment/parts are to be the same as or equivalent to the items listed below.

Quantity	Brand and Model or Equivalent	Description
4	HEI Doorguard 234 <i>Radionics D8229</i>	Electronic Touch Pads/Reader
1	DSC Maxsys PC4020 <i>Radionics D9412GV2</i>	Security Control Panel
1 set	Optex AX-130T	Twin Beam Photoelectric Detectors (front gate motion sensors installed to trigger front gate closer)
2	QSCO Model: HSLG 1 hp.	1 hp 480 three phase gate motors
10	Bolide BC2002HQDN/12/24	Sony HQ High Resolution Box Camera Cameras for Indoor and outdoor use
6	Bolide BP0034	15" Weatherproof Outdoor Housing w/Heater and Blower Housing for outdoor cameras
10	Bolide BP0019-12 1/3"	2.8mm - 12mm F1.4 Varifocal Auto Iris Lens For indoor and outdoor cameras
19	Lorex Mfr ^o SG620R B&H# LOSG620R	Simulated Dome Camera Fake cameras
1	Toshiba EVR32-240-1000	Digital Recording System (with 32 camera recording capacity)
1	American Dynamics 17" CCTV Model# ADMNM1LCD17	Multiple Screen Viewer (Should permit viewer to switch between 32 camera views)
1	Spectra Alert P1224MC <i>System Sensor P2W-P</i>	Horn/Strobe 12 volt
25	GE Security 2300 Series Sentrol	Overhead Door Contacts Door sensors

10	GE Sentrol 1085T	Screw Mount Terminal Contacts Door sensors
2	RCI 6 Series	Universal Electric Striker
2	Arrow S1800 Rime Exit Devises	Panic bar exit devices
1	Great Lakes GL48WMS	48" x 21.25 x 24.5 Rack with Plexiglas door
1	Great Lakes WM 7217WS	Fan assembly w/fan guards and two 75 CFM fans
1	Great Lakes WM 7206-FM	Stationary front mount shelf – 17.25 x 18
2	3 5/8 Pieso Super Siren 12vdc 120db	Indoor/Outdoor Sirens
1	Internet Connection: Suddenlink Business Connection with static IP, no slower than 6Mbps	Internet



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
ABC95

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1

ADDRESS CORRESPONDENCE TO ATTENTION OF
SHELLY MURRAY 304-558-8801

RFQ COPY

TYPE NAME/ADDRESS HERE

Surdyne Security, Inc.
 821 9th Street
 Huntington, WV 25701

ALCOHOL BEVERAGE CONTROL
 COMMISSION
 HUB INDUSTRIAL PARK
 RIVER ROAD
 NITRO, WV
 25143 558-2487

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
05/01/2008				

BID OPENING DATE: 06/18/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
REQUEST FOR QUOTATION						
<p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, WV ALCOHOL BEVERAGE CONTROL ADMINISTRATION, IS SOLICITING BIDS TO PROVIDE AND INSTALL A SECURITY SYSTEM AT THE ABC WAREHOUSE LOCATED IN NITRO, WV.</p> <p>ATTACHMENTS: SPECIFICATIONS BID BOND INSTRUCTIONS PURCHASING AFFIDAVIT</p> <p>A MANDATORY PRE-BID CONFERENCE WILL BE HELD 5/28/08 AT 3:00 PM AT 500 RIVER ROAD, HUB INDUSTRIAL PARK, NITRO, WV 25143.</p> <p>FAILURE TO ATTEND THIS MANDATORY PRE-BID CONFERENCE WILL RESULT IN BID DISQUALIFICATION.</p> <p>INQUIRES: WRITTEN QUESTIONS SHALL BE ACCEPTED THROUGH CLOSE OF BUSINESS ON 5/30/08. QUESTIONS MAY BE SENT VIA USPS, FAX, COURIER, OR EMAIL. IN ORDER TO ASSURE NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTIONS WILL BE ANSWERED ORALLY. IF POSSIBLE, EMAIL QUESTIONS ARE PREFERRED. ADDRESS INQUIRES TO:</p> <p>SHELLY MURRAY DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25311 FAX: 304-558-4115 EMAIL: SHELLY.L.MURRAY@WV.GOV</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>[Signature]</i>	(304) 523-8260	July 2, 2008
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Resident/CEO	55-0721450	

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 may be deemed null and void, and 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/wrc/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



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
ABC95

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ADDRESS CORRESPONDENCE TO ATTENTION OF
SHELLY MURRAY
304-558-8801

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

**ALCOHOL BEVERAGE CONTROL
 COMMISSION
 HUB INDUSTRIAL PARK
 RIVER ROAD
 NITRO, WV
 25143 558-2487**

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
05/01/2008				

BID OPENING DATE: **06/18/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-78		
<p>SECURITY SYSTEMS</p> <p>EXHIBIT 5</p> <p>NOTICE TO PROCEED: THIS CONTRACT IS TO BE PERFORMED WITHIN 60 CALENDAR DAYS AFTER THE NOTICE TO PROCEED IS RECEIVED. UNLESS OTHERWISE SPECIFIED, THE FULLY EXECUTED PURCHASE ORDER WILL BE CONSIDERED NOTICE TO PROCEED.</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 PUTNAM 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>						

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'



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
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ADDRESS CORRESPONDENCE TO ATTENTION OF
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SHIP TO

ALCOHOL BEVERAGE CONTROL
COMMISSION
HUB INDUSTRIAL PARK
RIVER ROAD
NITRO, WV
25143 **558-2487**

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
05/01/2008				

BID OPENING DATE: **06/18/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<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> <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>						

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Request for Quotation

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ADDRESS CORRESPONDENCE TO ATTENTION OF
SHELLY MURRAY 304-558-8801

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SHIP TO

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05/01/2008				

BID OPENING DATE: 06/18/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<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 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</p>						

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Request for Quotation

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ABC95

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ADDRESS CORRESPONDENCE TO ATTENTION OF:
**SHELLY MURRAY
 304-558-8801**

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ALCOHOL BEVERAGE CONTROL
 COMMISSION
 HUB INDUSTRIAL PARK
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BID OPENING DATE: **06/18/2008** BID OPENING TIME **01:30PM**

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<p>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 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</p>						

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304-558-8801

RFQ COPY
 TYPE NAME/ADDRESS HERE

ALCOHOL BEVERAGE CONTROL
 COMMISSION
 HUB INDUSTRIAL PARK
 RIVER ROAD
 NITRO, WV
 25143
 558-2487

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
05/01/2008				

BID OPENING DATE: **06/18/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>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> <p>ADDENDUM NOS.:</p> <p>NO. 1 .. <i>[Signature]</i></p> <p>NO. 2 ... <i>[Signature]</i> ...</p> <p>NO. 3</p> <p>NO. 4</p> <p>NO. 5</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE	DATE
TITLE <i>[Signature]</i>	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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



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
ABC95

PAGE
7

ADDRESS CORRESPONDENCE TO ATTENTION OF
SHELLY MURRAY
304-558-8801

RFQ COPY

TYPE NAME/ADDRESS HERE

SHIP TO

**ALCOHOL BEVERAGE CONTROL
 COMMISSION
 HUB INDUSTRIAL PARK
 RIVER ROAD
 NITRO, WV
 25143 558-2487**

DATE PRINTED 05/01/2008	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: **06/18/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>.....<i>Shelly R. Murray</i>.....SIGNATURE <i>Surdyn Security, Inc.</i>.....COMPANY <i>July 1, 2008</i>.....DATE</p> <p>REV. 11/96</p> <p style="text-align: center;">CONTRACTORS LICENSE</p> <p>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.</p> <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: CONTRACTORS NAME:<i>Surdyn Security, Inc.</i>..... CONTRACTORS LICENSE NO.:<i>WV023496</i>.....</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 style="text-align: center;">APPLICABLE LAW</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE	TELEPHONE	DATE	
TITLE	FERN	ADDRESS CHANGES TO BE NOTED ABOVE	

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Request for Quotation

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ADDRESS CORRESPONDENCE TO ATTENTION OF
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304-558-8801

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PURCHASER

SHIP TO

**ALCOHOL BEVERAGE CONTROL
 COMMISSION
 HUB INDUSTRIAL PARK
 RIVER ROAD
 NITRO, WV
 25143 558-2487**

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
05/01/2008				

BID OPENING DATE: **06/18/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>THE WEST VIRGINIA STATE CODE, PURCHASING DIVISION RULES 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> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">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>						

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'



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:
ABC95

PAGE:
9

ADDRESS CORRESPONDENCE TO ATTENTION OF:
SHELLY MURRAY
304-558-8801

RFQ COPY

TYPE NAME/ADDRESS HERE

SHIP TO

**ALCOHOL BEVERAGE CONTROL
 COMMISSION
 HUB INDUSTRIAL PARK
 RIVER ROAD
 NITRO, WV
 25143** **558-2487**

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
05/01/2008				

BID OPENING DATE: **06/18/2008** BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
BUYER:				SHELLY MURRAY / FILE 31		
REQ. NO.:				ABC95		
BID OPENING DATE:				06/18/2008		
BID OPENING TIME:				1:30 PM		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
----- (304) 523-4797 -----						
PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE:						
----- John R. Haynes -----						
***** THIS IS THE END OF RFQ				ABC95 ***** TOTAL: _____		

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'

ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12/07/2007

PRODUCER (304)736-2222 FAX (304)733-1234
Insurance Systems, Inc
PO Box 588
Ona, WV 25545
Heidi Howard

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.

INSURED Surdyne Security, Inc.
821 9th Street
Huntington, WV 25701

INSURERS AFFORDING COVERAGE	NAIC #
INSURER A: Essex Insurance Co J	
INSURER B:	
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.

INS ADDL TYPE CODE	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS MADE <input type="checkbox"/> OCCUR <input checked="" type="checkbox"/>	3CX8308	11/15/2007	11/15/2008	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 50,000 MED EXP (Any one person) \$ Excluded PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/DP AGG \$ Included
	GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC.				
	AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS				COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	GARAGE LIABILITY ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN AUTO ONLY: EA ACC \$ AGG \$
	EXCESS/UMBRELLA LIABILITY OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> DEDUCTIBLE RETENTION \$				EACH OCCURRENCE \$ AGGREGATE \$ \$ \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below				WE STATU-TORY LIMITS OTHER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
	OTHER				

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

CERTIFICATE HOLDER

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT. BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Heidi Howard



BOSCH
Invented for life

D9412GV2 Control Panel



The D9412GV2 Control Panel provides an integrated solution for intrusion, access control, and fire alarm system applications. The control panel includes a communicator that sends events to selected public switched telephone network (PSTN) or IP network destinations through four programmable route groups. The control panel provides up to 246 individually identified points. Each point:

- Accommodates normally-open (NO) and normally-closed (NC) devices with end-of-line (EOL) resistor supervision
- Is programmable for fire, fire supervisory, or intrusion applications.

With the D9412GV2 you can:

- Monitor alarm points for intruder or fire alarms while operating user keypads and other outputs
- Program all system functions on-site through a D5200 Programmer or remotely through Remote Programming Software (RPS).
- Add up to eight doors of access control using the optional D9210BLC Access Control Interface Module.

Functions

Programmable Outputs

- 2 A alarm power at 12 VDC
- 1.4 A auxiliary power at 12 VDC
- Four alarm-output patterns
- Programmable bell test
- Programmable bell shut-off timer

- ▶ Fully integrated intrusion, fire, and access control allows users to interface with one system instead of three
- ▶ Conettix IP-based communication option provides high-speed, secure alarm transport and control
- ▶ Eight programmable areas with perimeter and interior partitioning
- ▶ 246 points with flexible configuration options to meet multiple installation requirements
- ▶ Your choice of vacuum fluorescent or ATM style user interface keypads
- ▶ New user interface functions provide additional security and flexibility
- ▶ Up to 238 RF points

System Response

- 31 custom point indexes, including fire supervisory
- Selectable point response time
- Cross point capability
- Fire alarm verification
- Fire inspector's local test
- Watch mode
- Scheduled events (skeds) arm, disarm, bypass and unbypass points, control relays, control authority levels, and control door access

User Interface

- Supervision of up to eight keypads (up to 32 unsupervised keypads can be used)
- Custom keypad text
- Full function command menu including custom functions
- Authority by area and 16-character name for each user
- 14 custom authority levels control user's authority to change, add, or delete passcodes or access control credentials; to disarm or bypass points; and to start system tests

Note Use at least one keypad in each system.

Area Configurations

Area programming offers a wide selection of different system configurations. Each area is assigned an account number to define annunciation, control, and reporting functions. Multiple areas can be linked to a shared area which is automatically controlled (hallway or lobby). Area arming can be conditional on other areas (master or associate).

Two Man Rule

Two Man Rule provides added security by requiring:

- Two people present at opening
- Two unique passcodes on the same keypad to disarm an area

Without the second passcode, the system denies entry.

Early Ambush

Early Ambush requires two passcode entries on the same keypad. Enter the same passcode twice or have two unique passcodes, depending on the configuration. The first entry disarms the area and the second entry stops a timer programmed to send a duress event. If the second entry does not occur within the programmed time, the system generates a duress event. Early Ambush allows users to inspect the premises and use the system to confirm that the area is safe to enter, providing added security.

Easy Exit Control

The D9412GV2 Control Panel changes from one armed state to another armed state without disarming. For example, if you change the state from Master Arm to Perimeter Arm, the control panel complies and reports the change. Easy Exit Control reduces the number of keystrokes, simplifying system operation.

Programmable Passcode-controlled Menu List

The system prompts users to enter a passcode prior to viewing the keypad menu. The keypad display shows the user the menu options allowed according to the user's authority level. Passcode-controlled menus provide users only with the options and information pertinent to them, simplifying system operation.

Passcode Follows Scope

Use Passcode Follows Scope to restrict passcode arming and disarming to the keypad's immediate local area, even if the keypad can report events from other areas. Passcode Follows Scope simplifies the arming and disarming procedure without limiting any other keypad capabilities.

Invisible Walk Test

A menu item allows the user to test invisible 24-hour points within the scope of the keypad without sending a report to the central station.

Door-Activated Custom Function

A custom function activates when user credentials are presented to a D9210B door controller's reader. The custom function behaves as though the user performed a function at the keypad associated with the door controller.

Passcodes

User passcodes contain three to six digits. Assign each user one of 14 customized authority levels in each area. Restrict passcodes to operate only during certain times.

The Two Man Rule and Early Ambush options require two passcodes, providing additional security in financial establishments such as banks.

Communications

The D9412GV2 Control Panel prioritizes and sends reports in BFSK or Modem IIIa² communications formats to four route groups. Each group has a programmable primary and backup destination.

The D9412GV2 works with the Conettix D6600 Communications Receiver/Gateway using a Conettix DX4020 Network Interface Module. When using a DX4020, the D9412GV2 has programmable anti-replay anti-substitution features.

The Modem IIIa² Communications Format, available with Bosch receivers, adds central station reporting capabilities such as:

- Individual point numbers and text
- Opening or closing reports by area number
- Remote programming attempts
- Diagnostic reports
- User name reports

Security and Fire Detection

The D9412GV2 Control Panel provides eight on-board points, and up to 238 additional off-board points (depending on model and expansion interfaces). You can program individual points to monitor all types of burglar alarms, fire alarms, and supervision devices.

Event Log

The event log stores up to 1,000 local and transmitted events. The event log includes time, date, event, area, point, and user number. View the event log from a keypad or use RPS to remotely retrieve event information. RPS operators can retrieve events periodically using one phone call, rather than receiving several calls each day. When the event log reaches a programmed threshold of stored events, it can send an optional report to a receiver.

Access Control

The D9412GV2 provides custom door strike, point shunt and auto disarming response by area. There are 14 panel-wide access levels with both manual and scheduled control.

Store, view, or print access events such as:

- Access granted

- No entry
- Request-to-enter
- Request-to-exit

Scheduled Events (Skeds)

The internal clock and calendar start individually scheduled events (skeds). Skeds perform functions such as arm or disarm, relay control, or point bypassing. The D9412GV2 Control Panel offers:

- 40 scheduled events with up to 25 different functions
- Eight opening windows and eight closing windows
- Eight user windows
- Day-of-week, date-of-month, or holiday only schedules
- Four holiday schedules of 366 days each (leap year)

Fire Test

When a user activates Fire Test Mode, the control panel suppresses all reports to the central station. The keypad and annunciator show all testing data. An automatic sensor reset feature saves time; you do not need to reset the sensors manually. At the end of test, the keypad shows the number of untested points.

Programming, Diagnostics and Controls

Users can program on-site with a D5200 Programmer, or program remotely through RPS. A programmable system passcode prevents unauthorized remote programming.

D9412GV2 Control Panels accommodate up to four separate telephone numbers for primary, alternate, and backup receivers for automatic test reports.

When resetting alarms or arming or disarming a system, the user is identified by name and number.

Certifications and Approvals

The D9412GV2 Control Panel is designed to comply with the following certifications, standards, and approvals.

UL Standards	UL365, Police Station Burglar Alarm Units and Systems UL609, Local Burglar Alarm Units and Systems UL864, Control Units for Fire-protective Signaling Systems UL985, Household Fire Warning System Units UL1023, Household Burglar-alarm System Units UL1076, Proprietary Burglar Alarm Units and Systems UL1610, Central-station Burglar-alarm Units UL1635, Digital Alarm Communicator System Units
Approvals	FCC: AJ9MLU-46532-AL-E CSFM MEA

The D9412GV2-CA Control Panel Kit complies with the following certifications, standards, and approvals.

Standards	cUL
Approvals	Industry Canada (IC)

Installation/Configuration Notes

Compatible Products

Keypads	D1260 Series Keypads (D1260, D1260W, D1260R, D1260BLK, D1260B) D720 Series Keypads (D720, D720W, D720R, D720B) D1255 Series Keypads (D1255, D1255W, D1255R, D1255B, D1255RB) D1256 and D1256RB Fire Keypads D1257 and D1257RB Remote Fire Alarm Annunciators D279A Independent Zone Control
Detectors	D278S Four-wire Addressable Detector Base, 12 VDC D285/TH Photoelectric Smoke Detector Heads D298S Addressable Detector Base, 24 VDC D7050 Series Addressable Photoelectric Smoke and Smoke Heat Detector Heads F220-B6PM/S Addressable Detector Bases with POPITs MX250 Series Smoke Detectors MX775i Addressable PIR Detector MX794i Long Range Multiplex PIR Detector MX934i Addressable PIR Detector MX938i Addressable PIR Detector ZX776Z PIR Detector ZX794Z Long Range PIR Detector ZX835 TriTech Microwave/PIR Detector ZX935Z PIR Detector ZX938Z PIR Detector ZX970 PIR/Microwave Detector Bosch conventional detectors, including Blue Line, seismic, PIR, TriTech PIR Microwave, photoelectric, heat, and smoke.
Enclosures	D8103 Universal Enclosure D8108A Attack-resistant Enclosure D8109 Fire Enclosure D9101 Fire Enclosure (large)
Magnetic Contacts	Bosch magnetic contacts include recessed, terminal connection, miniature, overhead door, and surface mount.
Modules	C900V2 Dialer Capture Module D113 Battery Lead Supervision Module D125B Dual Class B Initiating Module D127 Reversing Relay Module D129 Class A Initiating Module D130 Auxiliary Relay Module D185 Reverse Polarity Signaling Module D192C Notification Appliance Circuit Module

	D192G Notification Appliance Circuit Module
	D928 Phone Line Switcher
	D5060 MUX Programmer
	D8125 POPEX Point Expander
	D8128D OctoPOPIT Eight-point Expander
	D8125MUX Point Expander
	D8129 Octo-relay Module
	D8130 Door Release Module
	D9127 Series POPIT Modules
	D9131A Parallel Printer Interface Module
	D9210BLC Access Control Interface Module
	DS7432 Eight-input Remote Module
	DS7457i Series Single-zone Multiplex Input Modules
	DS7460i Two-input Module
	DS7461i Single-input Multiplex Module
	DS7465i Input and Output Module
	DX4010i RS-232 Serial Interface Module
	Conettix DX4020 Network Interface Module
Peripheral Hardware	rvm4c Remote Video Module
Programming	D5200 Series Programmers RPS or RPS-LITE Remote Programming Software
Readers	ARD-R10 iCLASS Mullion Reader ARD-R40 iCLASS Switchplate Reader ARD-RK40-09 iCLASS PIN Reader ARD-VSMART iCLASS Reader D8201/W Series Low-profile Readers D8203/W Series Mullion Proximity Readers D8223 Prox Pro Reader D8224 Mullion Reader D8224-SP Switch Plate Reader D8225 Mini Mullion Reader D8227 Insert Card Reader D8301/W Series Low-profile Proximity Readers D8302 Vandal-resistant Reader D8303/W Series Mullion Proximity Readers D8304/W Series Extended Range Proximity Readers WP644 Series Waterproof Pass-through Readers
SAFECOM Radio Communicators	SC2104 Series Slave Communicators SC3100 Series Data Transfer Radio Communicators SC4000 Series Full Data Transfer Radio Communicator

Wireless Products	D8125INV Wireless Interface FA113 Keychain Remote Control FA116 Executive Programmer FA202 Wireless Smoke Detector and Transmitter FA203S Necklace Pendant Transmitter (single-button) FA203D Necklace Pendant Transmitter (double-button) FA204 Necklace Pendant Transmitter FA205S Belt Clip/Loop Transmitter (single-button) FA205D Belt Clip/Loop Transmitter (double-button) FA206DS PIR Transmitter FA206i PIR Transmitter FA207 Glass Break Detector FA209 Billtrap Transmitter FA210 Universal Transmitter (off-white) FA210W Universal Wide Gap Transmitter with Internal Reed Switch (off-white) FA216L Low-temperature Transmitter FA216H High-temperature Transmitter FA223S Water-resistant Pendant (white single-button) FA223D Water-resistant Pendant (black double-button) FA250 High-power Universal Transmitter FA400 Remote Receiver FA404R Transmitter Receiver FA416R Transmitter Receiver FA570 High-power Indoor Repeater FA575 High-power Indoor/Outdoor Repeater
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Parts Included

D9412GV2 Components	Quantity
D9412GV2 Board	1
Mounting Skirt	1
Faceplate with D9412GV2 Label	1

Technical Specifications

Communications

SDI Bus A (+): 9 VDC
4572 m (15,000 ft)

SDI Bus B (-): 9 VDC
4572 m (15,000 ft)

Telephone Connection:

- One telephone line
- D928 Dual Phone Line Module required for two telephone lines

Environmental Considerations

Relative Humidity:	5% to 93% at +30°C (+86°F), non-condensing
Temperature (Operating):	0°C to +50°C (+32°F to +122°F)
Number of...	
Areas:	8
Card Readers (Doors):	8
Credentials (Tokens):	996
Custom Functions:	16
Events:	Up to 1000
Passcode Users:	249, plus 1 service passcode
Parallel Printers:	3
Points:	246 (8 on-board, up to 238 off-board)

Programmable Relay Outputs:	131
RF Points:	238
SKEDs:	64
Power Requirements	
Current Draw (Maximum):	300 mA
Output (Alarm):	2 A at 12 VDC
Output (Auxiliary, Continuous Power, and Switched Auxiliary combined):	1.4 A at 12 VDC nominal
Voltage (Operating):	12 VDC nominal
Voltage (AC):	16.5 VAC 40 VA plug-in transformer (D1640)

D9412GV2 Kit Ordering Information

Components	Kits				
	D9412GV2-A	D9412GV2-CA-A	D9412GV2-B	D9412GV2-C	D9412GV2-CA-C
D9412GV2 Board	1		1	1	
D9412GV2 Board for Canada		1			1
D101F Lock and Key Set				1	1
D122 Dual Battery Harness			1		
D161 2.1 m (7 ft) Dual Modular Phone Cords			2		
D928 Dual Phone Line Switcher			1		
D1640 Transformer	1		1	1	
D1640-CA Transformer for Canada		1			1
D8103 Enclosure				1	1
D8109A Attack-Resistant Enclosure	1	1			
D8109 Fire Enclosure			1		

Ordering Information

D9412GV2 Control Panel Includes one printed circuit board (PCB).	D9412GV2
D9412GV2 Control Panel for Canada For use in Canada. Includes one printed circuit board (PCB) and assorted installation hardware.	D9412GV2-CA
D9412GV2 Attack-Resistant Kit Contains one PCB, one transformer, and one attack-resistant enclosure.	D9412GV2-A
D9412GV2 Attack-Resistant Kit for Canada For use in Canada. Contains one PCB, one transformer, and one attack-resistant enclosure.	D9412GV2-CA-A
D9412GV2 Fire and Burglar Kit Contains one PCB, one dual battery harness, two telephone cords, one telephone line switcher, one transformer, and one fire enclosure.	D9412GV2-B
D9412GV2 Commercial Burglar Kit Contains one PCB, one lock and key set, one transformer, and one universal enclosure.	D9412GV2-C
D9412GV2 Commercial Burglar Kit for Canada For use in Canada. Contains one PCB, one lock and key set, one transformer, and one universal enclosure.	D9412GV2-CA-C

Ordering Information

Accessories	
D928 Dual Phone Line Switcher Allows the control panel to operate over and supervise two separate phone lines. Only one D162 phone cord is supplied. Two additional D161 or D162 phone cords are required.	D928
D110 Tamper Switch Screw-on tamper switch that fits all enclosures. Shipped in packages of two.	D110
ICP-EZTS Dual Tamper Switch Combination tamper switch with a wire loop for additional tamper outputs.	ICP-EZTS
D101 Lock and Key Set Standard lock set with one key supplied. Uses the D102 (#1358) replacement key.	D101
D122 Dual Battery Harness Harness with circuit breaker. Connects two batteries to a compatible control panel.	D122
D122L Dual Battery Harness with Long Leads Color-coded harness with circuit breaker and leads measuring 89 cm (35 in.). Connects 12 V batteries to compatible control panels.	D122L

Ordering Information

D126 Standby Battery (12 V, 7 Ah) Sealed lead-acid standby and auxiliary rechargeable power supply.	D126
D1218 Battery (12 V, 18 Ah) A 12 V sealed lead-acid battery for standby and auxiliary power with two bolt-fastened terminals. Includes hardware for attaching lbattery leads or spade connectors	D1218
D1224 Battery (12 V, 24 Ah) A 12 V sealed lead-acid battery for standby and auxiliary power with two bolt-fastened terminals. Includes hardware for attaching lbattery leads or spade connectors.	D1224
D1238 Battery (12 V, 38 Ah) A 12 V sealed lead-acid battery for standby and auxiliary power with two bolt-fastened terminals. Includes hardware for attaching battery leads or spade connectors.	D1238
D137 Mounting Bracket Used to mount accessory modules in D8103, D8108A, and D8109 enclosures.	D137
D138 Mounting Bracket, Right Angle Used to mount accessory modules in D8103, D8108A, and D8109 enclosures.	D138
D168A Telephone Remote Arming Module A remote control module that arms or disarms a security system remotely or locally through a telephone.	D168A
D1640 Transformer System transformer rated at 16.5 VAC, 40 VA.	D1640
D1640 Transformer for Canada For use in Canada. System transformer rated at 16.5 VAC, 40 VA.	D1640-CA
D8004 Transformer Enclosure For applications such as fire alarm that might require a transformer enclosure.	D8004
D8103 Enclosure Grey steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.).	D8103
D8108A Attack Resistant Enclosure Grey steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.). UL Listed. Includes lock and key set. Requires the D2402 Mounting Plate.	D8108A
D8109 Fire Enclosure Red steel enclosure measuring 40.6 cm x 40.6 cm x 8.9 cm (16 in. x 16 in. x 3.5 in.). UL Listed. Includes a lock and key set.	D8109

Ordering Information

D9101 Fire Enclosure Large red enclosure for fire applications. It is constructed of 16 gauge (1.5 mm) cold rolled steel and measures 37.4 in x 23.5 in. x 2.4 in. (94.8 cm x 59.6 cm x 10.5 cm).	D9101
D9002-5 Mounting Skirt Mounts inside D8103, D8108A, and D8109 enclosures. Can accept up to six standard 7.62 cm x 12.7 cm (3 in. x 5 in.) cards.	D9002-5
Software Options	
RPS Kit (LPT) Account management and control panel-programming software with LPT connection.	D5500C-LPT
RPS Kit (USB) Account management and control panel-programming software with USB connection.	D5500C-USB

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Americas:
Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

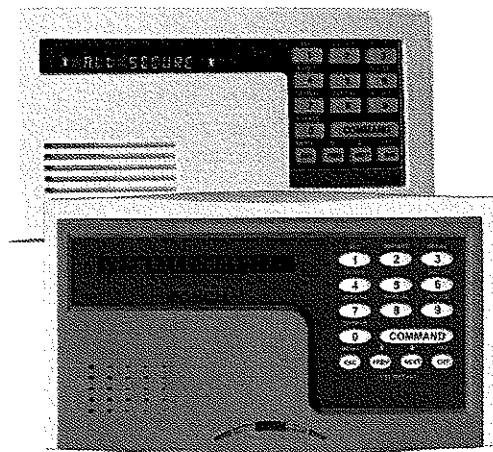
Asia-Pacific:
Bosch Security Systems Pte Ltd
38C Jalan Pemimpin
Singapore 577180
Phone: +65 6319 3450
Fax: +65 6319 3499
apr.securitysystems@bosch.com
www.boschsecurity.com

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D1255 Series VFD Keypads



- ▶ Easy to read vacuum fluorescent display (VFD)
- ▶ Easy system control with menu keys
- ▶ User controlled brightness and volume
- ▶ Installer configured menus, text, and custom functions
- ▶ Multiple or single area configurations

Each D1255 Series VFD Keypad model is an SDI bus compatible device that works with the G Series Control Panels and the D9124 Addressable Fire Alarm Panel. Each keypad model has an illuminated keypad, 16-character English language vacuum fluorescent display (VFD), and a sounder that emits eight tones.

Functions

Display

Every D1255 Series Keypad model uses words, numbers, and symbols to show the status of the security system. When several events occur, each model shows each event in order of priority.

Keys

Each D1255 Series Keypad model has 10 numeric keys and five function keys. Use the [COMMAND] key with the numeric keys to perform a function. Use the [ENT] key or [YES] key to enter your passcode. When pressed, each key emits light and a muted beep.

Audible Tones

The sounder emits eight distinct warning tones. You can adjust the volume or use a passcode to silence the tone. The tones include:

- Burglary Signal: Steady high-pitched bell tone during alarm.
- Fire Signal: Pulsed high-pitched bell tone during fire alarm.
- Entrance Warning: Intermittent beep tones during entry delay periods.
- Exit Warning: Intermittent beep tones during exit delay periods.
- Invalid Key Buzz: Buzz tone when an invalid key is pressed.
- Keypad Encoding Tone: Muted beep tone as each key is pressed.
- Trouble Buzzer: Two-tone warble during a trouble event.
- Watch Tone: Intermittent beep tone when a watch point is faulted.

System Overview

Use D1255 Series Keypad models in applications for system controllers and annunciators:

- For commercial use, install the keypad in building entrances and areas with unrestricted access. Mounting a keypad near exterior doors in hotel or business lobbies allows people to identify the type and location of the emergency.

- For residential use, install the keypad near the front and rear entrances to the home. Install additional keypads in a kitchen or in a bedroom.
- Use multiple keypads in a large building with many separate areas of security. Program multiple keypads to control multiple areas.
- Install the keypad in locations that are hidden from view. Audible tones from the keypad sounder alert personnel to fire events and assist fire fighters in locating the keypad.

Certifications and Approvals

Keypad Model	Certifications and Approvals
All Models	UL365, Police Station Burglar Alarm Units and Systems UL609, Local Burglar Alarm Units and Systems UL864, Control Units for Fire-protective Signaling Systems UL985, Household Fire Warning System Units UL1023, Household Burglar Alarm System Units UL1076, Proprietary Alarm Units UL1610, Central-station Burglar-alarm Units UL1635, Digital Alarm Communicator System Units
D1255, D1255R, and D1255W	CSFM
D1255 Only	FM, MEA

Installation/Configuration Notes

Compatibility Information

Control Panels with SDI Bus D9412G, D7412G, D9412, D7412, D7212, D9112, and D9124
D7212G with firmware version 6.41 or higher

Mounting Considerations

- Do not mount any of the D1255 Series Keypad models in a location exposed to direct sunlight. Direct sunlight can interfere with screen visibility and damage internal components.
- Do not mount any of the D1255 Series Keypad models in damp locations.

Power Supplies

A compatible control panel supplies the power and data requirements to a D1255 Series Keypad model through a four-wire connection.

Wiring Considerations

Use 0.8 mm (22 AWG) or 1.2 mm (18 AWG) wire. Resistance cannot exceed 25 Ω . Each D1255 Series Keypad model includes a wiring assembly of four color-coded flying leads and one female four-pin connector.

Technical Specifications

Connections

Connections:	4-wire flying lead for data and power
Resistance:	25 Ω maximum

Environmental Considerations

Temperature (Operating):	0°C to +50°C (+32°F to +122°F)
Relative Humidity:	5% to 85% at +30°C (+86°F)

Keypad

Dimensions for D1255, D1255W, and D1255R:	11.7 cm x 21 cm x 2 cm (4.6 in. x 8.2 in. x 0.8 in.)
Dimensions for D1255B:	12.6 cm x 20 cm x 3.2 cm (5 in. x 7.9 in. x 1.3 in.)
Weight for All Models:	439 g (15.5 oz)
Material for All Models:	CHI MEI POLYLAC® PA757 ABS with UV Stabilizer. UL94-HB Fire Rated
Display Window:	<ul style="list-style-type: none"> • 16-character vacuum fluorescent display • Each character is a 14-segment unit
Indicators:	<ul style="list-style-type: none"> • Illuminated keys • Warning and indicating tones

Number of...

D1255 Series Keypad Models per Control Panel:	Eight supervised 32 unsupervised
---	----------------------------------

Power Requirements

Voltage:	Nominal 12 VDC
Current:	Idle 104 mA, armed or disarmed Maximum 206 mA, with keypad lit and warning tone on

Trademarks

POLYLAC® is a registered trademark of CHI MEI Industrial Corporation, LTD. Plexiglas® is a registered trademark of Arkema.

Ordering Information

D1255 VFD Keypad Off-white classic case.	D1255
D1255W VFD Keypad White classic case.	D1255W
D1255R VFD Keypad Red classic case.	D1255R
D1255B VFD Keypad White and gray modern case.	D1255B
Hardware Accessories	
D54B Brass Flush Mount Kit Back box and polished brass faceplate.	D54B
D54C Stainless Steel Flush Mount Kit Back box and stainless steel faceplate.	D54C
D55 Keypad Desk Stand Portable desk stand in smoke colored Plexiglas®.	D55

Ordering Information

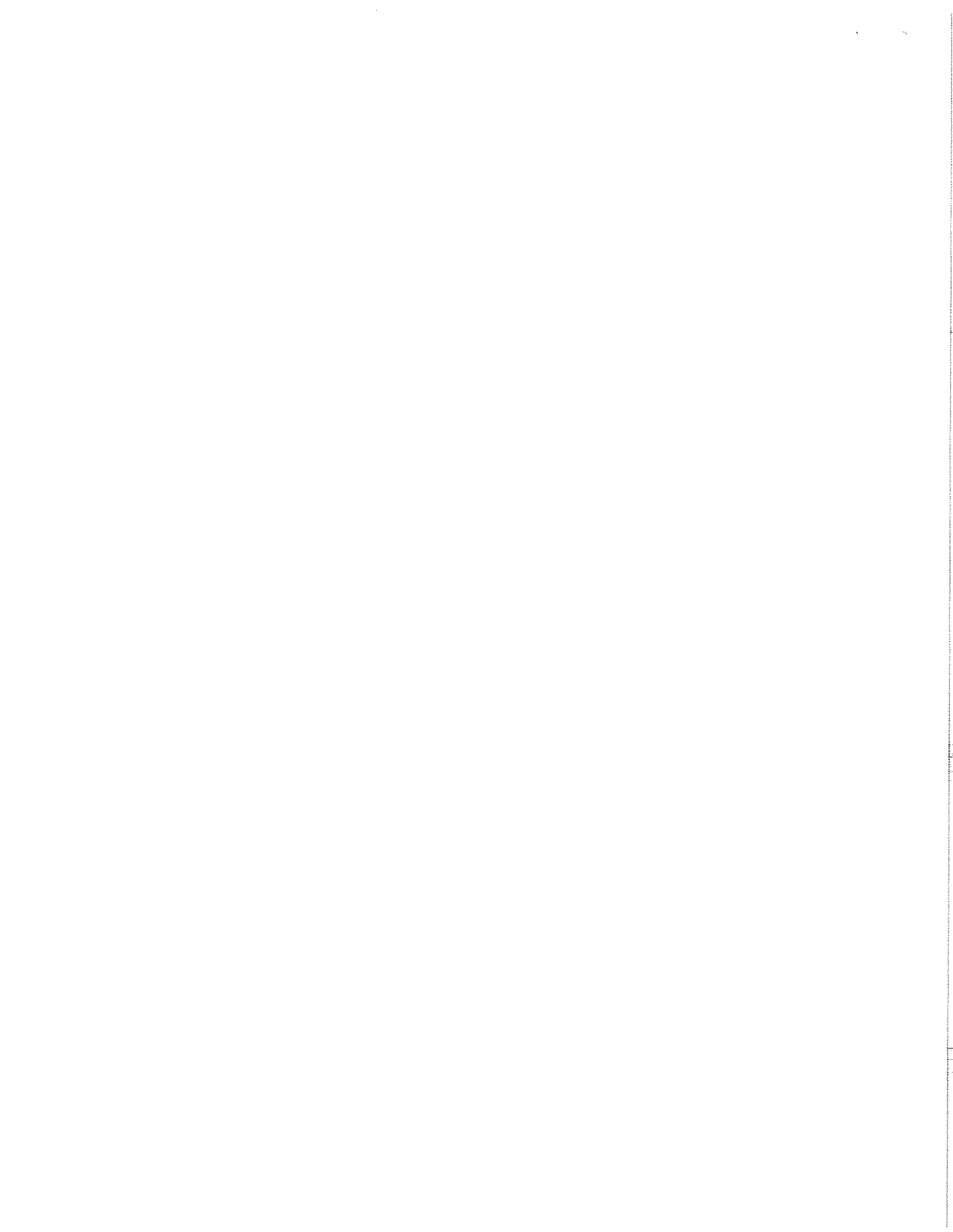
D56 Surface Mount Conduit Box White surface mount box.	D56
D56R Red Surface Mount Conduit Box Red surface mount box.	D56R

Americas:
Bosch Security Systems
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 585 223 4060
Fax: +1 800 299 0096
security.sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: +31 40 27 83955
Fax: +31 40 27 86668
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:
Bosch Security Systems Pte Ltd
38C Jalan Pemimpin
Singapore 577180
Phone: +65 6319 3450
Fax: +65 6319 3499
apr.securitysystems@bosch.com
www.boschsecurity.com

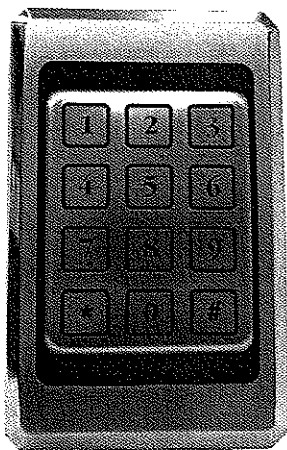
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D8229 Access Keypad



- ▶ PIN keypad
- ▶ Easy installation
- ▶ Two LED indicators
- ▶ Sturdy enclosure

The D8229 Access Keypad sends output in a Wiegand 26-bit format. Enter a personal identification number (PIN) to obtain access. There are keys for numbers 0 through 9, for the number symbol (#), and for the asterisk symbol (*). Each time you press a key, one of the light emitting diode (LED) indicators emits a red light and an annunciator emits a beep.

Functions

Easy Installation

The D8229 Access Keypad installs easily in a US standard single-gang switch box. For outdoor applications, use a suitable weather-resistant back box.

Two LED Indicators

The D8229 Access Keypad has two light emitting diode (LED) indicators. One LED emits green light to indicate access granted. The second LED emits red light to indicate the door is locked. The second LED also emits red light when a key is pressed.

Sturdy Enclosure

The D8229 Access Keypad has a steel enclosure. The electronic components are embedded in protective material. These properties make the D8229 Access Keypad resistant to damage from moisture, harsh weather, and vandalism.

Certifications and Approvals

UL Standards	UL294, Access Control System Units
Approvals	FCC CE

Installation/Configuration Notes

Compatibility Information

Reader	D8229 Access Keypad
Systems	<ul style="list-style-type: none"> • ReadykeyPRO • Readykey • Readykey KeyPAC • D9412G Control Panel • D7412G Control Panel

Connection Considerations

When using 1.2 mm (18 AWG) cable, you can place the reader up to 152 m (500 ft) away from the door controller.

Technical Specifications

Communication

Keypad:	12 keys
---------	---------

Communication

Connections Minimum 0.8 mm (22 AWG) five-wire stranded

Enclosure

Dimensions: 13 cm x 8 cm x 1 cm
(5 in. x 3 in. x 0.4 in.)

Material: Stainless steel

Weight: 0.6804 kg (1.5 lb)

Environmental Considerations

Relative Humidity: 0% to 100%, non-condensing
For UL Listed applications, 0% to 85%, non-condensing

Temperature (Operating): -40°C to +71°C (-40°F to +160°F)
For UL 294 applications, -30°C to +60°C (-22°F to +140°F)

Indicators 1 red LED and 1 green LED

Power Requirements

Current (Input): 20 mA idle; 120 mA peak

Voltage (Input): 5 ±1 VDC or 12 ±3 VDC;
jumper selectable

Ordering Information**D8229 Access Keypad****D8229**

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: +31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Americas:
Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

Asia-Pacific:
Bosch Security Systems Pte Ltd
38C Jalan Pemimpin
Singapore 577180
Phone: +65 6319 3450
Fax: +65 6319 3499
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Audible/Visible Notification

Series: SpectrAlert Advance

Type: Horn Strobe

Model: P2W-P

Description: The SpectrAlert Advance P2W-P is an unmarked, white, two-wire horn/strobe with selectable strobe settings of 15, 15/75, 30, 75, 95, 110 and 115 cd. It includes a multi-alert label with FIRE, EVAC, ALERT or AGENT that can be manually applied to the product housing.



- [Data Sheet](#)
- [Installation Instructions](#)
- [Brochure](#)
- [Printer Friendly](#)



Specifications: P2W-P

Color: White

Voltage: Regulated 12DC/FWR or regulated 24DC/FWR

Candela: Selectable strobe settings of 15, 15/75, 30, 75,

95, 110 and 115 cd

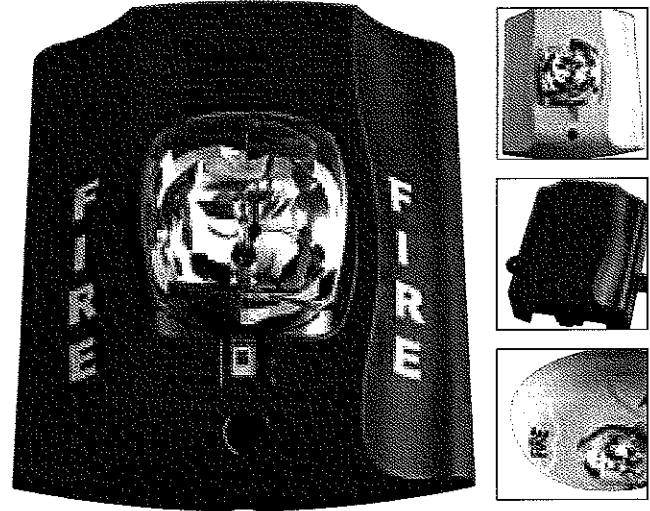
Operating Voltage Range:	8 to 17.5 V (12V nominal) or 16 to 33 V (24 nominal)
DC Max. Operating Current - Strobe:	(see Data Sheet for complete current draw information)
FWR Max. Operating Current - Strobe:	(see Data Sheet for complete current draw information)
Wiring Gauge:	12 to 18 AWG
Humidity Range:	10 to 93% non-condensing
Wall mount dimensions (including lens):	5.6"L x 4.7"W x 2.5"D (142 mm L x 119 mm W x 64 mm D)





Selectable Output Horns, Strobes, and Horn/Strobes

SpectrAlert® Advance selectable-output horns, strobes, and horn/strobes are rich with features guaranteed to cut installation times and maximize profits.



SPECTRAlert
ADVANCE
From System Sensor

The **SpectrAlert Advance series** of notification appliances is designed to simplify installations, with features such as plug-in designs, instant feedback messages to ensure correct installation of individual devices, and 11 field-selectable candela settings for wall and ceiling strobes and horn/strobes.

When installing Advance products, first attach a universal mounting plate to a four-inch square, four-inch octagon or double-gang junction box. The two-wire mounting plate attaches to a single-gang junction box.

Next, connect the notification appliance circuit wiring to the SEMS terminals on the mounting plate.

Finally, attach the horn, strobe or horn/strobe to the mounting plate by inserting the product's tabs in the mounting plate's grooves. The device will rotate into position, locking the product's pins into the mounting plate's terminals. The device will temporarily hold in place with a catch until it is secured with a captured mounting screw.

The SpectrAlert Advance series includes outdoor notification appliances. Outdoor strobes and horn/strobes (two wire and four wire) are available for wall or ceiling. Outdoor horns are available for wall only. All System Sensor outdoor products are rated between minus 40 degrees Fahrenheit and 151 degrees Fahrenheit in wet or dry applications.

Features

- Electrically compatible with existing SpectrAlert products
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Plug-in design
- Field selectable candela settings on wall and ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185
- Same mounting plate for wall- and ceiling-mount units
- Shorting spring on mounting plate for continuity check before installation
- Tamper resistant construction
- Outdoor wall and ceiling products rated from -40°F to 151°F
- Design allows minimal intrusion into the back box
- Horn rated at 88+ dbA at 16 volts
- Rotary switch for horn tone and three volume selections
- Outdoor products UL listed to UL 1638 (strobe) and UL 464 (horn) outdoor requirements
- Outdoor products NEMA 4X rated
- Compatible with MDL sync module

Agency Listings

SIGNALING



S4011
S5512
S3593



3023572

MEA
approved

MEA452-05-E



7125-1653:186 (indoor strobes)
7300-1653:187 (outdoor strobes)
7125-1653:188 (horn/strobes,
chime/strobes)
7135-1653:189 (horns, chimes)

SpectrAlert Advance Specifications

Architect/Engineer Specifications

General

SpectrAlert Advance horns, strobes and horn/strobes shall mount to a standard 4 x 4 x 1½-inch back box, 4-inch octagon back box or double-gang back box. Two-wire products shall also mount to a single-gang 2 x 4 x 1½-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync-Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync-Circuit Module, 12-volt rated notification appliance circuit outputs shall operate between nine and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC, or full-wave rectified, unfiltered power supply. Strobes and horn/strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185.

Strobe

The strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Horn/Strobe Combination

The horn/strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and UL 464 and shall be approved for fire protective service. The horn/strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The horn shall have three audibility options and an option to switch between a temporal three-pattern and a non-temporal (continuous) pattern. These options are set by a multiple position switch. On four-wire products, the strobe shall be powered independently of the sounder. The horn on horn/strobe models shall operate on a coded or non-coded power supply.

Outdoor Products

SpectrAlert Advance outdoor horns, strobes and horn/strobes shall be listed for outdoor use by UL and shall operate between minus 40 degrees and 151 degrees Fahrenheit. The products shall be listed for use with a System Sensor outdoor/weatherproof back box with half inch and three-fourths inch conduit entries.

Synchronization Module

The module shall be a System Sensor Sync-Circuit model MDL listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn/strobe models over a single pair of wires. The module shall mount to a 4½½ x 4½½ x 2½-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Physical/Electrical Specifications

Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
K Series Operating Temperature	-40°F to 151°F (-40°C to 66°C)
Humidity Range	10 to 93% non-condensing (indoor products)
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12DC/FWR or regulated 24DC/FWR ¹
Operating Voltage Range ²	8 to 17.5 V (12V nominal) or 16 to 33 V (24 nominal)
Input terminal wire gauge	12 to 18 AWG
Ceiling mount dimensions (including lens)	6.8" diameter x 2.5" high (173 mm diameter x 64 mm high)
Wall mount dimensions (including lens)	5.6"L x 4.7"W x 2.5"D (142 mm L x 119 mm W x 64 mm D)
Horn dimensions	5.6"L x 4.7"W x 1.3"D (142 mm L x 119 mm W x 33 mm D)
Wall-mount back box skirt dimensions (BBS-2, BBSW-2)	5.9"L x 5.0"W x 2.2"D (151 mm L x 128 mm W x 56 mm D)
Ceiling-mount back box skirt dimensions (BBSC-2, BBSCW-2)	7.1" diameter x 2.25" high (180 mm diameter x 57 mm high)
Wall-mount weatherproof back box dimensions (SA-WBB)	5.7"L x 5.1"W x 2.0"D (145 mm L x 130 mm W x 51 mm D)
Ceiling-mount weatherproof back box dimensions (SA-WBBC)	7.1" diameter x 2.0" high (180 mm diameter x 51 mm high)

Notes:

1. Full Wave Rectified (FWR) voltage is a non-regulated, time varying power source that is used on some power supply and panel outputs.

2. P, S, PC, and SC products will operate at 12 V nominal only for 15 and 15/75 cd.

UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)					UL Max. Horn Current Draw (mA RMS)						
	Candela	8-17.5 Volts		16-33 Volts		Sound Pattern	dB	8-17.5 Volts		16-33 Volts	
		DC	FWR	DC	FWR			DC	FWR	DC	FWR
Standard	15*	123	128	66	71	Temporal	High	57	55	69	75
Candela Range	15/75*	142	148	77	81	Temporal	Medium	44	49	58	69
	30*	NA	NA	94	96	Temporal	Low	38	44	44	48
	75*	NA	NA	158	153	Non-temporal	High	57	56	69	75
	95*	NA	NA	181	176	Non-temporal	Medium	42	50	60	69
	110	NA	NA	202	195	Non-temporal	Low	41	44	50	50
High Candela Range	115	NA	NA	210	205	Coded	High	57	55	69	75
	135	NA	NA	228	207	Coded	Medium	44	51	56	69
	150	NA	NA	246	220	Coded	Low	40	46	52	50
	177	NA	NA	281	251						
	185	NA	NA	286	258						

UL Max. Current Draw (mA RMS), 2-wire Horn/Strobe, Standard Candela Range (15-115 cd)									
DC Input	8-17.5 Volts				16-33 Volts				
	15	15/75	15	15/75	30	75	95	110	115
Temporal High	137	147	79	90	107	176	194	212	218
Temporal Medium	132	144	69	80	97	157	182	201	210
Temporal Low	132	143	66	77	93	154	179	198	207
Non-temporal High	141	152	91	100	116	176	201	221	229
Non-temporal Medium	133	145	75	85	102	163	187	207	216
Non-temporal Low	131	144	68	79	96	156	182	201	210
FWR Input									
Temporal High	136	155	88	97	112	168	190	210	218
Temporal Medium	129	152	78	88	103	160	184	202	206
Temporal Low	129	151	76	86	101	160	184	194	201
Non-temporal High	142	161	103	112	126	181	203	221	229
Non-temporal Medium	134	155	85	95	110	166	189	208	216
Non-temporal Low	132	154	80	90	105	161	184	202	211

UL Max. Current Draw (mA RMS), 2-wire Horn/Strobe, High Candela Range (135-185 cd)									
DC Input	16-33 Volts				FWR Input	16-33 Volts			
	135	150	177	185		135	150	177	185
Temporal High	245	259	290	297	Temporal High	215	231	258	265
Temporal Medium	235	253	288	297	Temporal Medium	209	224	250	258
Temporal Low	232	251	282	292	Temporal Low	207	221	248	256
Non-temporal High	255	270	303	309	Non-temporal High	233	248	275	281
Non-temporal Medium	242	259	293	299	Non-temporal Medium	219	232	262	267
Non-temporal Low	238	254	291	295	Non-temporal Low	214	229	256	262

Candela Derating

For K series products used at low temperatures, listed candela ratings must be reduced in accordance with this table.

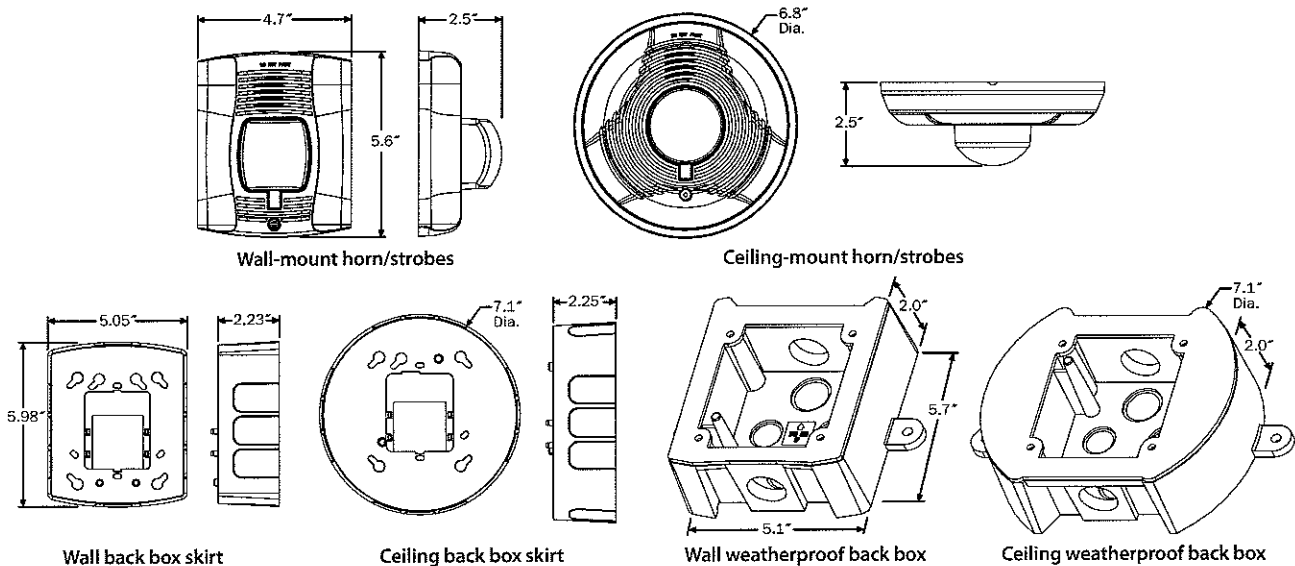
Strobe Output (cd)	
Listed Candela	Candela rating at -40°F
15	Do not use below 32°F
15/75	
30	
75	44
95	70
110	110
115	115
135	135
150	150
177	177
185	185

Horn Tones and Sound Output Data

Horn and Horn/Strobe Output (dBA)											
Switch Position	Sound Pattern	dB	8-17.5 Volts		16-33 Volts		24 Volt Nominal				
			DC	FWR	DC	FWR	Reverberant		Anechoic		
			DC	FWR	DC	FWR	DC	FWR	DC	FWR	
1	Temporal	High	78	78	84	84	88	88	99	98	
2	Temporal	Medium	74	74	80	80	86	86	96	96	
3	Temporal	Low	71	73	76	76	83	80	94	89	
4	Non-temporal	High	82	82	88	88	93	92	100	100	
5	Non-temporal	Medium	78	78	85	85	90	90	98	98	
6	Non-temporal	Low	75	75	81	81	88	84	96	92	
7 [†]	Coded	High	82	82	88	88	93	92	101	101	
8 [†]	Coded	Medium	78	78	85	85	90	90	97	98	
9 [†]	Coded	Low	75	75	81	81	88	85	96	92	

[†]Settings 7, 8, and 9 are not available on 2-wire horn/strobe.

SpectrAlert Advance Dimensions



SpectrAlert Advance Ordering Information

Model	Description
Wall Horn/Strobes	
P2R*†	2-wire Horn/Strobe, Standard cd‡, Red
P2RH*	2-wire Horn/Strobe, High cd, Red
P2RK*‡	2-wire Horn/Strobe, Standard cd, Red, Outdoor
P2RHK°	2-wire Horn/Strobe, High cd, Red, Outdoor
P2W*	2-wire Horn/Strobe, Standard cd, White
P2WH*	2-wire Horn/Strobe, High cd, White
P4R*	4-wire Horn/Strobe, Standard cd, Red
P4RH*	4-wire Horn/Strobe, High cd, Red
P4RK‡	4-wire Horn/Strobe, Standard cd, Red, Outdoor
P4RHK°	4-wire Horn/Strobe, High cd, Red, Outdoor
P4W*	4-wire Horn/Strobe, Standard cd, White
P4WH*	4-wire Horn/Strobe, High cd, White
Wall Strobes	
SR*†	Strobe, Standard cd, Red
SRH*†	Strobe, High cd, Red
SRK‡	Strobe, Standard cd, Red, Outdoor
SRHK	Strobe, High cd, Red, Outdoor
SW*	Strobe, Standard cd, White
SWH*	Strobe, High cd, White
Ceiling Horn/Strobes	
PC2R*	2-wire Horn/Strobe, Standard cd, Red
PC2RH*	2-wire Horn/Strobe, High cd, Red
PC2RK°	2-wire Horn/Strobe, Standard cd, Red, Outdoor
PC2RHK‡	2-wire Horn/Strobe, High cd, Red, Outdoor

Model	Description
Ceiling Horn/Strobes (cont'd.)	
PC2W*†	2-wire Horn/Strobe, Standard cd, White
PC2WH*†	2-wire Horn/Strobe, High cd, White
PC4R	4-wire Horn/Strobe, Standard cd, Red
PC4RH	4-wire Horn/Strobe, High cd, Red
PC4RK	4-wire Horn/Strobe, Standard cd, Red, Outdoor
PC4RHK‡	4-wire Horn/Strobe, High cd, Red, Outdoor
PC4W	4-wire Horn/Strobe, Standard cd, White
PC4WH	4-wire Horn/Strobe, High cd, White
Ceiling Strobes	
SCR*	Strobe, Standard cd, Red
SCRH*	Strobe, High cd, Red
SCRK‡	Strobe, Standard cd, Red, Outdoor
SCRHK°	Strobe, High cd, Red, Outdoor
SCW*†	Strobe, Standard cd, White
SCWH*†	Strobe, High cd, White
Horns	
HR	Horn, Red
HRK°	Horn, Red, Outdoor
HW	Horn, White
Accessories	
BBS-2	Back Box Skirt, Wall, Red
BBSW-2	Back Box Skirt, Wall, White
BBSC-2	Back Box Skirt, Ceiling, Red
BBSCW-2	Back Box Skirt, Ceiling, White

Notes:

* Add "-P" to model number for plain housing (no "FIRE" marking on cover), e.g., P2R-P.

† Add "-SP" to model number for "FUEGO" marking on cover, e.g., P2R-SP.

‡ "Standard cd," refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings. "High cd," refers to strobes that include 135, 150, 177, and 185 candela settings.

All outdoor units ending in "K" include a weatherproof back box.

‡ Add "-R" to model number for weatherproof replacement device (no back box included).



3825 Ohio Avenue • St. Charles, IL 60174
Phone: 800-SENSOR2 • Fax: 630-377-6495

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