



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
COR61350

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
JOHN ABBOTT 304-558-2544

RFQ COPY  
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

DIVISION OF CORRECTIONS  
 ST. MARYS CORRECTIONAL CENTER  
  
 2880 N PLEASANTS HWY  
 ST. MARYS, WV  
 26170 304-684-5500

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
05/03/2007				

BID OPENING DATE: 05/30/2007 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		285-34		
<p>SURGE SUPPRESSION EQUIPMENT</p> <p>REQUEST FOR QUOTATION</p> <p>TO FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL SURGE SUPPRESSION EQUIPMENT AT ST. MARY'S CORRECTIONAL CENTER AS PER THE ATTACHED SPECIFICATIONS WHICH INCLUDE 10 EACH THOR SYSTEMS MODEL TSR160D 3Y2I102 OR EQUAL AND 10 EACH THOR SYSTEMS MODEL TSD 005 TS02 M02M OR EQUAL.</p> <p>A MANDATORY PRE-BID WILL BE HELD ON 05/17/07 AT 10:00AM AT ST. MARY'S CORRECTIONAL CENTER. PLEASE CONTACT EXHIBIT 5</p> <p>NOTICE TO PROCEED: THIS CONTRACT IS TO BE PERFORMED WITHIN XXXX 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 PLEASANTS COUNTY, PURSUANT</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'

**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.

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**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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<p>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> <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 &amp; MATERIAL BOND WILL ONLY BE ALLOWED FOR PROJECTS UNDER \$100,000. PERSONAL</p>						

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<p>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 &amp; 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</p>						

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<p>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 &amp; 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</p>						

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<p>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> <p>ADDENDUM NOS.:</p> <p>NO. 1 .....            NO. 2 .....            NO. 3 .....            NO. 4 .....            NO. 5 .....</p>						

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<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.</p> <p>.....SIGNATURE</p> <p>.....COMPANY</p> <p>.....DATE</p> <p>REV. 11/96</p> <p>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:</p> <p>CONTRACTORS NAME: .....</p> <p>CONTRACTORS LICENSE NO.: .....</p> <p>THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH A</p>						

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<p>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> <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>						

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THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:  SEALED BID  BUYER: JA/BUYER 32 REQ. NO.: COR61350 BID OPENING DATE: 05/30/2007 BID OPENING TIME: 1:30 PM  PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:  ----- PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE:  -----  ***** THIS IS THE END OF RFQ COR61350 ***** TOTAL: _____						

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# Data/Telco Product Spec Sheet

THOR SYSTEMS, INC.  
3621 Saunders Avenue  
Richmond, VA 23227-4354  
Ph 804.355.1100 ♦ Fax 804.355.8900

## SERIES TSd TS

10kA Per Mode

## SURGE SUPPRESSION DEVICE

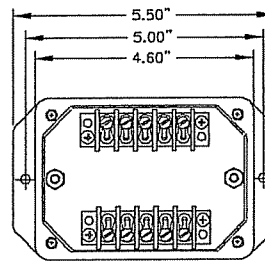
Improve the operating efficiency of your data transmission circuits. THOR SYSTEMS' *Series TSd TS* products are designed to provide multimode hybrid protection for data transmission lines (from Ethernet to incoming T1/DSL Lines), with both Normal and Common mode protection through multiple suppression technologies and proprietary suppression components.

The *TSd TS* module is available for 2-wire to 8-wire data line connections (from 1 to 4 pairs), and includes a shield terminal or stud for incoming and outgoing cables. Connection of the *TSd TS* is accomplished using terminal strips to make the installation easier. A ground lug on the unit ensures a low impedance ground discharge path.

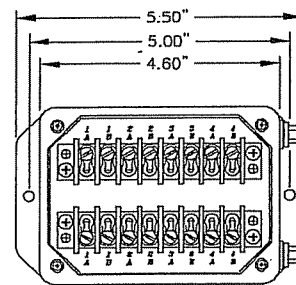
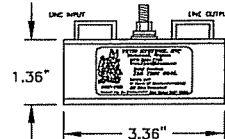
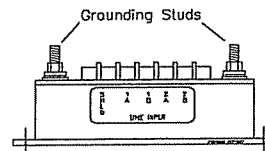
It is important to recognize that every wire connected to your equipment, even though it may not be in use, provides a path for harmful surges and transients to reach your sensitive electronic equipment. THOR SYSTEMS offers a wide range of high-quality surge suppression systems and power quality site-specific solutions. All of our products are designed to improve efficiency, eliminate downtime, and protect mission-critical electronic equipment. Our solutions are installed in critical locations, i.e. protecting electrical service entrances and distribution systems, as well as data and telecommunications systems.

GENERAL INFORMATION	
Application	<i>Data transmission lines Ethernet, T1/DSL</i>
	<i>1 to 4 Pairs</i>
Series Connected	<i>Terminal Screws</i>
Warranty	<i>5 Years</i>
ELECTRICAL SPECIFICATIONS	
MCOV	<i>7.5V, 15V, 36V, 54V, 140V</i>
Operating Voltage	<i>5V, 12V, 24V, 48V, 130V</i>
Response Time	<i>≤1 nanosecond</i>
Operating Current	<i>500mA</i>
Peak Surge Current	<i>10kA per Mode</i>
Protection Modes	<i>Normal (Line-Line), each pair Common (Line-Ground), each pair</i>
Transmission Rate	<i>Up to 100Mbps</i>
MECHANICAL SPECIFICATIONS	
Enclosure	<i>UL94-5VA ABS Plastic</i>
Connection Methods	<i>Terminal Screws Conductors: #18-#22AWG Ground: #6-#14AWG</i>
Physical Characteristics	<i>Light weight: &lt;2 lbs. Compact size: 5.00" x 3.375" x 1.875" External Mounting Feet</i>

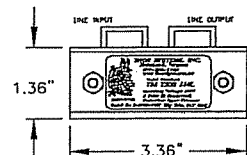
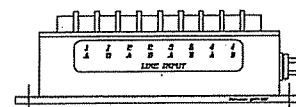
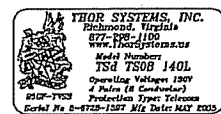
Note: Shield connections per protected equipment manufacturer's recommendations.



*Series TSd TS  
Unit with 1-2 Pair Configuration*



*Series TSd TS  
Unit with 4-Pair Configuration*



THOR SYSTEMS continuously strives to improve its products. Occasionally there may be changes in features or optional equipment. All information contained in this printed material is based on the latest product information available at the time of printing. THOR SYSTEMS reserves the right to implement changes, without notice, in specifications and equipment services.



# TSr Product Spec Sheet

THOR SYSTEMS, INC.  
3621 Saunders Avenue  
Richmond, VA 23227-4354  
Ph 804.355.1100 ♦ Fax 804.355.8900

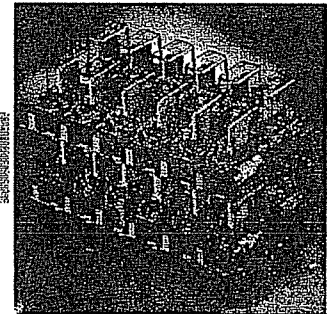
## SERIES TSr

80, 160, 320kA Per Mode

## SURGE SUPPRESSION DEVICE

THOR SYSTEMS' TSr product series is robust, high performance, and feature filled, using field replaceable surge modules and fuses. This series, housed in a fabricated metal enclosure, furnishes the highest level of transient and electrical noise protection, typically applied at critical applications in the most severe electrical service entrance and main distribution locations. The optional surge-rated disconnect switch provides the means to allow timely module replacement and field service requirements. TSr products have separately mounted Neutral/Ground modules and an optional filter capacitor network for additional EMI/RFI electrical noise suppression.

GENERAL INFORMATION	
Agency Listings	UL1449, UL1283, cUL
Application	Industrial
Protection Modes	All
Connection Method	Parallel
Service	Replaceable Modules & Surge Fuses
MCOV	115% – 125%
Operating Frequency	50Hz – 60Hz
Operating Temperature	0° – 60°C
Operating Humidity	0% – 95% Non-condensing
Operating Altitude	0 – 12,000 feet
Warranty	5 Years
MECHANICAL SPECIFICATIONS	
Enclosure	Hoffman NEMA 4 Steel
Enclosure Size	TSr80/160 = 20" x 16" x 8" TSr320 = 20" x 16" x 12"
Printed Circuit Board	5 oz. Parallel Copper Traces (Top & Bottom), 4 Layer
ELECTRICAL SPECIFICATIONS	
Protection Per Mode	80, 160, or 320kA
Component Technology	Hybrid MOV/SAD/Cap
Fusing	200k AIC UL Recognized Surge Fuses
Response Time	<1 nanosecond
PRODUCT OPTIONS	
• Integral Surge Disconnect Switch	• Extended Filter Network
• Surge Counter	• Full Power Quality Monitoring



VOLTAGE	UL SVR (6kV / 500A)				A3 Ringwave (6kV / 200A)				B3 / C1 (6kV / 3kA)				C3 (20kV / 10kA)			
	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G
120 VAC	330	400	700	400	296	315	371	209	760	816	980	840	1336	1360	1536	1360
277 VAC	700	700	1200	400	565	595	665	234	1040	1059	1776	840	1720	1896	2000	1216
480 VAC	N/A	1200	1200	N/A	N/A	552	565	N/A	N/A	1520	1776	N/A	N/A	2280	2136	N/A

All tests were performed using 6" leads. Test impulses were dynamic and applied to the 90° phase angle of the sine wave. Test results DO NOT reflect subtraction of the sine wave peak from the let-through voltage measured at zero (0).

### WHY THOR TSr PRODUCTS: KEY FEATURES & BENEFITS

- 80kA Field Replaceable module with hybrid design using individual UL Recognized 80kA surge-rated fuses
- Hybrid design comprising SADs, MOVs, and Filter Capacitors
- Suppression systems are provided in a NEMA 4 steel enclosure
- Fewer, larger MOVs provide lower let-through voltage and 100x greater Pulse Life over smaller diameter MOVs
- Surge conduction paths are 2x the surge current rating of the suppression components
- Optional fully-integrated Power Quality Monitor with 3 phase power analysis, harmonic distortion (128 samples per second), high-speed 3 phase transient detection, VFD display with graphics, remote monitoring interface, and outboard HTML web server
- Optional #6 Corona Wire (consisting of 133 strands of 27 AWG conductors) is offered to install systems providing improved TVSS performance from 17% to 30%
- Each suppression system is offered with an optional Spare Module and its associated surge-rated fuse
- All systems offer an optional, fused UL1283 Extended Filter Network

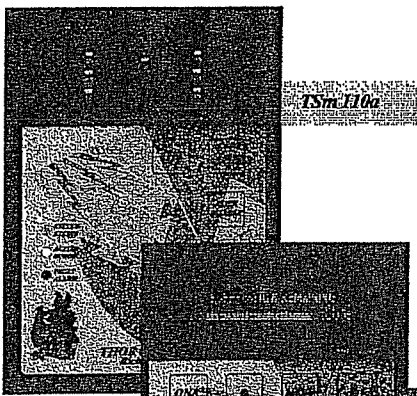
THOR SYSTEMS continuously strives to improve its products. Occasionally there may be changes in features or optional equipment. All information contained in this printed material is based on the latest product information available at the time of printing. THOR SYSTEMS reserves the right to implement changes, without notice, in specifications and equipment services.



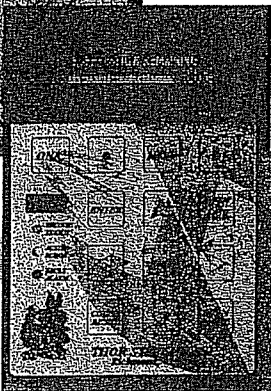
# TSr Product Spec Sheet

THOR SYSTEMS, INC  
 3621 Saunders Avenue  
 Richmond, VA 23227-4354  
 Ph 804.355.1100 ♦ Fax 804.355.8900

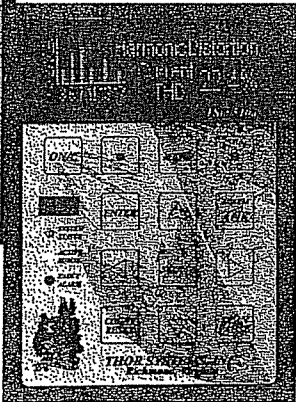
TSr MONITORING FEATURES	TSm510a	TSm310a	TSm110a
a. Graphic embossed overlay with 13 membrane switches providing tactile feedback and clear protective windows for LED/VFD displays	✓	✓	
b. Graphic embossed overlay with 3 membrane switches providing tactile feedback and clear protective windows for LED displays			✓
c. 2 LEDs which are active communication indicators	✓	✓	
d. True RMS voltage monitoring	✓	✓	
e. True RMS current monitoring	✓		
f. Summary Alarm, 2 Form "C" contacts to change state on any alarm condition	✓	✓	✓
g. Digital I/O, 2 inputs and 2 Form "C" programmable outputs	✓	✓	
h. 3 Surge Counters (L:N, L:G, and System Total)	✓	✓	
i. Audible alarm with <i>Acknowledge/Silence</i> pushbutton	✓	✓	✓
j. Ground integrity alarm (continually supervises overall impedance of the ground connection)	✓	✓	
k. Display of total suppression capacity	✓	✓	
l. Solid State LED indication of system status, active surge, and alarm fault	✓	✓	✓
m. Algorithms constantly evaluate true RMS and waveform parameters to establish base setups, creating a power quality dataset template. Feature allows quick reference data to be used to identify critical events for transient and waveform capture data logging and acquisition.	✓		
n. HTML template pages to graph power quality results and display historical data collection	✓	✓	
o. Ability to monitor power quality in one or multiple facility environments from any remote location	✓		
p. Surge suppression and power quality monitoring within a single package installation	✓		
q. Ability for customers to perform power quality and energy audits	✓		
r. Ability to obtain historical data for root-cause analysis	✓	✓	
s. Features the latest generation of high performance static CMOS technology, Digital Signal Processor (DSP)	✓	✓	
t. Communications provided by a highly integrated module with Ethernet port, serial communication, TCP/IP and RS 485	✓	✓	
u. All critical monitoring data is stored in CMOS memory, backed up with a lithium battery capable of retaining data for at least 2 years without AC power attached	✓	✓	



TSm110a



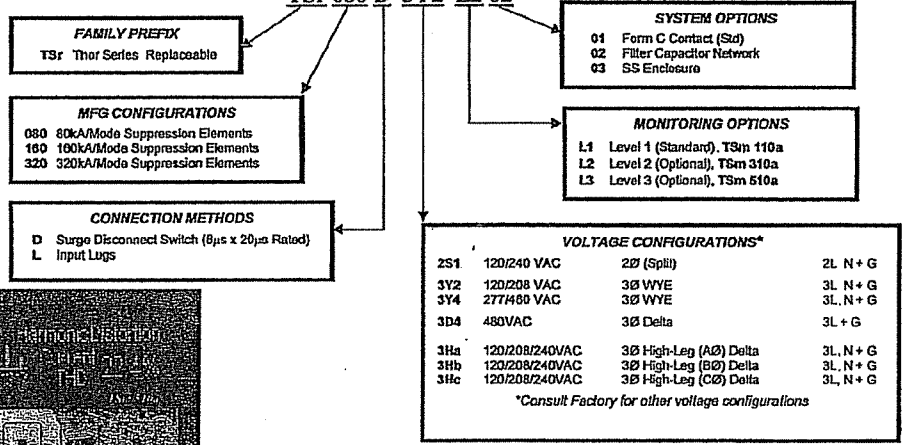
TSm310a



TSm510a

## TSr MODEL NUMBER NOMENCLATURE

**TSr 080 D 3Y2 L2 02**



THOR SYSTEMS continuously strives to improve its products. Occasionally there may be changes in features or optional equipment. All information contained in this printed material is based on the latest product information available at the time of printing. THOR SYSTEMS reserves the right to implement changes, without notice, in specifications and equipment services.

## REPLACEABLE SERIES (w/Alarm)

### Section 16289 - TRANSIENT VOLTAGE SURGE SUPPRESSION

#### 1.0 Part 1 - GENERAL

##### 1.1 SUMMARY

- 1.1.1 This section includes Transient Voltage Surge Suppressors for low-voltage (600Vac and less) power equipment.

##### 1.2 CERTIFICATIONS

###### 1.2.1 Underwriters Laboratory (UL)

- 1.2.1.1 UL1449 (Second Edition) - Transient Voltage Surge Suppressor
- 1.2.1.2 UL1283 - Electromagnetic Interference Filters
- 1.2.1.3 cUL - UL Evaluation to Canadian Safety Requirements

###### 1.2.2 American National Standards Institute (ANSI)/Institute of Electrical & Electronic Engineers (IEEE)

- 1.2.2.1 C62.41.1 - 2002 IEEE Guide on the Surge Environment in Low-Voltage (1000V and less) AC Power Circuits
- 1.2.2.2 C62.41.2 - 2002 IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000V and less) AC Power Circuits
- 1.2.2.3 C62.45 - 2002 IEEE Recommended Practice on Surge Testing for Equipment Connected to Low-Voltage (1000V and less) AC Power Circuits
- 1.2.2.4 C62.62 - 2000 IEEE Standard Test Specifications for Surge Protective Devices for Low Voltage AC Power Circuits

###### 1.2.3 National Electrical Manufacturers Association (NEMA)

###### 1.2.4 National Fire Protection Association (NFPA)

- 1.2.4.1 NFPA 70 National Electric Code (NEC)

##### 1.3 PROJECT CONDITIONS

- 1.3.1 Service Conditions: The Transient Voltage Surge Suppressor shall be rated for continuous operation under the following conditions:

- 1.3.1.1 Maximum Continuous Operating Voltage (MCOV): 115% to 125% of the nominal operating voltage
- 1.3.1.2 Operating Temperature: 0°C to 60°C
- 1.3.1.3 Relative Humidity: 0% to 95%, non-condensing
- 1.3.1.4 Operating Altitude: 0 feet to 12,000 feet

##### 1.4 INSTALLATION

- 1.4.1 The location of the field-mounted Transient Voltage Surge Suppressor shall allow adequate clearances for maintenance.
- 1.4.2 Lead-Length: The mounting of the Transient Voltage Surge Suppressor shall ensure the connecting leads are as short and straight as reasonably possible.
- 1.4.3 The Transient Voltage Surge Suppressor shall be marked with a Short Circuit Current Rating (SCCR) and shall not be installed at a point on the system where the available fault current is in excess of that rating per the National Electric Code, Article 285, Section 6.

## 1.5 WARRANTY

- 1.5.1 General Warranty: The Transient Voltage Surge Suppressor manufacturer shall warranty the suppression elements against defective materials and workmanship for a period of five (5) years from the date of purchase.

## 2.0 Part 2 - PRODUCT

### 2.1 STAND ALONE TRANSIENT VOLTAGE SURGE SUPPRESSOR

#### 2.1.1 Acceptable Manufacturers

- 2.1.1.1 Thor Systems, Inc. Model # TSr160D 3Y2 L102

#### 2.1.2 Alternate Manufacturers

- 2.1.2.1 Alternate manufacturers shall submit specification compliance report, drawings, NEMA LS-1 Test Report, and confirmation that each MOV is individually protected with an equivalent UL Recognized surge rated fuse (a single fuse protecting multiple MOVs is not acceptable) with coordination report ten (10) days prior to bid for consideration.

- 2.1.3 Transient Voltage Surge Suppressor shall be a stand alone configuration. Systems that are integral to the switchgear will not be considered.

### 2.2 SERVICE ENTRANCE DEVICES

- 2.2.1 The following describes the requirements of a Service Entrance Transient Voltage Surge Suppressor.
- 2.2.2 The Transient Voltage Surge Suppressor shall be a Field Serviceable, parallel design, enabling installation on Service Entrance equipment, i.e. Panelboards, Switchboards and Switchgear, up to 6000 Amps.
- 2.2.3 The Transient Voltage Surge Suppressor shall be designed for installation on a 120/208V ac, Three Phase WYE configuration as shown on plans.
- 2.2.4 The Transient Voltage Surge Suppressor shall have a Per Mode Rating of 320,000 Surge Amps ( $8\mu\text{s} \times 20\mu\text{s}$ ) and Per Phase Rating of 640,000 Surge Amps ( $8\mu\text{s} \times 20\mu\text{s}$ ).
- 2.2.5 The Transient Voltage Surge Suppressor shall incorporate a coordinated Hybrid design utilizing:
- MOVs (Metal Oxide Varistors)
  - SADs (Silicon Avalanche Diodes, 240kW per mode)
  - UL1283 Filter Capacitors
  - Fuses, Surge Rated ( $8\mu\text{s} \times 20\mu\text{s}$ )
  - Twenty (20) feet of High Voltage Silicone Lead Wire, which reduces skin-effect losses thus optimizing system performance, shall be offered as an option by manufacturer for use by installing contractor. Use of THHN or other 600V rated wire is not acceptable.
- 2.2.6 The Transient Voltage Surge Suppressor shall consist of four (4) 80kA Field Replaceable Surge Modules and respective 80kA Field Replaceable Surge Fuses for each protection mode. (Systems using fuse links or printed circuit board trace fusing are not acceptable.)
- 2.2.7 The Transient Voltage Surge Suppressor shall consist of a UL796 Listed Primary PCB designed to accept Field Replaceable Surge Modules and Fuses. The PCB shall be marked with a  $\Delta$  symbol indicating it meets the requirements of UL796, including those for Direct Support applications.

2.2.8 The Transient Voltage Surge Suppressor shall have the following UL1449 assigned SVR (Surge Voltage Ratings) for the provided protection paths:

<b>Voltage Rating</b>	<b>L-N</b>	<b>L-G</b>	<b>N-G</b>	<b>L-L</b>
120	330V	400V	400V	700V
277	700V	700V	400V	1200V
480	N/A	1200V	N/A	1200V

2.2.9 The Transient Voltage Surge Suppressor shall have an Available Interrupting Capacity (AIC) of 100k AIC @ 240Vac without the use of an external circuit breaker or fuse.

2.2.10 The Transient Voltage Surge Suppressor shall be supplied with a UL1283 recognized Noise Filtering Capacitor for each surge path providing Sine Wave Tracking technology to assist in the mitigation of harmful EMI/RFI events.

**2.3 DISTRIBUTION PANEL DEVICES**

2.3.1 The following describes the requirements of a Distribution Panel Transient Voltage Surge Suppressor.

2.3.2 The Transient Voltage Surge Suppressor shall be a Field Serviceable, parallel design, enabling installation on Distribution Panel equipment, up to 2500 Amps.

2.3.3 The Transient Voltage Surge Suppressor shall be designed for installation on a 120/208V or 277/480V ac, Three Phase WYE or 240 or 480V ac, Delta configuration as shown on plans.

2.3.4 The Transient Voltage Surge Suppressor shall have a Per Mode Rating of 160,000 Surge Amps (8µs x 20µs) and Per Phase Rating of 320,000 Surge Amps (8µs x 20µs).

2.3.5 The Transient Voltage Surge Suppressor shall incorporate a coordinated Hybrid design utilizing:

- MOVs (Metal Oxide Varistors)
- SADs (Silicon Avalanche Diodes, 120kW per mode)
- UL1283 Filter Capacitors
- Fuses, Surge Rated (8µs x 20µs)
- Twenty (20) feet of High Voltage Silicone Lead Wire which reduces skin-effect losses, optimizing system performance, shall be offered as an option by manufacturer for use by installing contractor. Use of THHN or other 600V rated wire is not acceptable.

2.3.6 The Transient Voltage Surge Suppressor shall consist of two (2) 80kA Field Replaceable Surge Modules and respective 80kA Field Replaceable Surge Fuses for each protection mode. (Systems using fuse links or printed circuit board trace fusing are not acceptable.)

2.3.7 The Transient Voltage Surge Suppressor shall consist of a UL796 Listed Primary PCB designed to accept Field Replaceable Surge Modules and Fuses. The PCB shall be marked with a Δ symbol indicating it meets the requirements of UL796, including those for Direct Support applications.

2.3.8 The Transient Voltage Surge Suppressor shall have the following UL1449 assigned SVR (Surge Voltage Ratings) for the provided protection paths:

<b>Voltage Rating</b>	<b>L-N</b>	<b>L-G</b>	<b>N-G</b>	<b>L-L</b>
120	330V	400V	400V	700V
277	700V	700V	400V	1200V
480	N/A	1200V	N/A	1200V

2.3.9 The Transient Voltage Surge Suppressor shall have an Available Interrupting Capacity (AIC) of 100k AIC @ 240Vac without the use of an external circuit breaker or fuse.

2.3.10 The Transient Voltage Surge Suppressor shall be supplied with a UL1283 recognized Noise Filtering Capacitor for each surge path providing Sine Wave Tracking technology to assist in the mitigation of harmful EMI/RFI events.

## 2.4 REPLACEABLE SURGE MODULE

2.4.1 One (1) replaceable module shall be supplied with each system.

2.4.2 The Replaceable Module shall consist of a UL796 Listed printed circuit board utilizing parallel planes of 5-ounce copper for the surge path. The PCB shall be marked with a  $\Delta$  symbol indicating it meets the requirements of UL796, including those for Direct Support applications.

2.4.3 The Replaceable Module shall encase the suppression elements in a clear polycarbonate housing to protect fuse element integrity.

2.4.4 The Replaceable Module shall consist of:

- Silicon Avalanche Diodes (SADs) totaling 60kW
- 80kA Metal Oxide Varistor (MOV)
- Green Indicating LED
- Safety Pin Key Receptacle

2.4.5 The Replaceable Module shall be interconnected to the Fuse and the surge return path by a ½" copper hex buss.

2.4.6 The Replaceable Module shall include a Green LED that illuminates to indicate a working module.

## 2.5 PRIMARY PRINTED CIRCUIT BOARD

2.5.1 The Primary Printed Circuit Board (PCB) shall consist of a UL796 Listed, four (4) layer printed circuit board utilizing parallel planes of 5-ounce copper for all surge paths. The PCB shall be marked with a  $\Delta$  symbol indicating it meets the requirements of UL796, including those for Direct Support applications.

2.5.2 The Primary PCB surge paths shall also include a ¼" x ½" copper buss bar.

2.5.3 The Primary PCB shall be supported by 600V Dielectric Insulators fastened on a yellow, zinc-plated metal back pan.

2.5.4 The Primary PCB shall support the Surge Fuses and UL1283 Filter Capacitors for each surge path.

2.5.5 The Primary PCB shall contain a voltage dependant Keyed Bridge for each Surge Module, designed to only accept the correct voltage rated Surge Module.

2.5.6 The Keyed Bridge shall also include two (2) 5-ounce copper traces to be used as Parallel surge paths.

## 2.6 SYSTEM

2.6.1 The Transient Voltage Surge Suppressor System shall include a 200kA (8 $\mu$ s x 20 $\mu$ s) surge-rated Disconnect Switch where shown on plans. The Switch shall be provided with bronze/copper Service Post Connectors that accept the High Voltage Silicon Wire supplied with system.



- 2.6.2 The Transient Voltage Surge Suppressor System shall provide separate connectors for the input Ground and Neutral, if applicable. The Input Connector shall be a bronze/copper Service Connector that accepts the High Voltage Silicon Wire supplied with system.
- 2.6.3 The Transient Voltage Surge Suppressor System shall be housed in a NEMA 4x style metal enclosure not exceeding 20"H x 16"W x 8"D in size. Plastic or Fiberglass enclosures are not acceptable.
- 2.6.4 Each Transient Voltage Suppressor System shall be supplied with twenty (20) feet of High Voltage Silicone Lead Wire for installation by installing contractor. Part #574016, #6 AWG High Voltage Silicon Lead Wire with 133 strands of 27 AWG conductors, UL Recognized File No. E76475 (AWM) Style 10475.

## 2.7 SYSTEM MONITORING

- 2.7.1 The Transient Voltage Surge Suppressor (TVSS) shall be provided with a Monitoring Display Overlay. All switches shall be membrane style, providing protection against outside contaminants.
- 2.7.2 The TVSS Monitoring System shall include visual Phase Loss Indicators. The visual indication shall indicate which respective phase is lost.
- 2.7.3 The TVSS Monitoring System shall include visual Loss of Protection Mode Indicators. The illuminated LED shall indicate which respective protection mode was lost.
- 2.7.4 The TVSS Monitoring System shall include an Active Surge Indicator that illuminates during an actual surge event.
- 2.7.5 The TVSS Monitoring System shall include an Audible Alarm that sounds in the event of an alarm condition. The alarm shall have a 90dB rating at 2.8kHz.
- 2.7.6 The TVSS Monitoring System shall include an Alarm Acknowledge button that silences the alarm that sounds during an alarm condition.
- 2.7.7 The TVSS Monitoring System shall include a Horn Disable button that disables the alarm function, preventing the alarm (horn) from sounding.
- 2.7.8 The TVSS Monitoring System shall include an ON button. The ON button shall turn the Monitoring System on or off.
- 2.7.9 The Transient Voltage Surge Suppressor System shall include a User Interface PCB that has two (2) Form C (NO-C-NC) contacts to provide remote monitoring indication in the event of a protection mode failure. The Terminal Block shall accept a #16 - #28 AWG wire. The contacts shall have UL/CSA ratings of:
- 30Vdc/1A
  - 65Vdc/0.46A
  - 150Vac/0.46A

STATE OF WEST VIRGINIA  
Purchasing Division

**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 exceed 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](http://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: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_