

## RTD Temperature Measurement, Display and Monitoring System

### Features

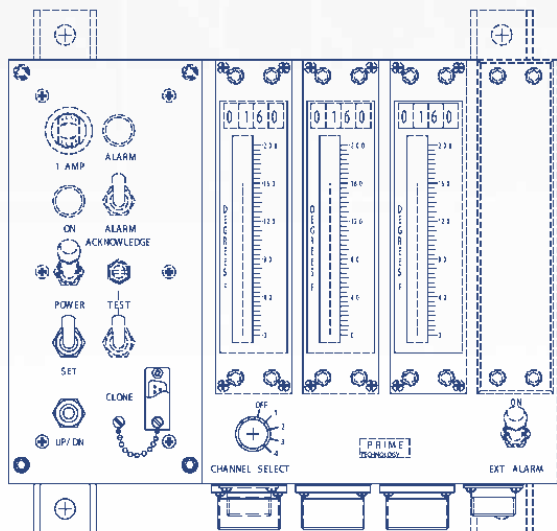
- Fastest Response Military RTD Technology Available
- MIL SPEC Designed, Tested and Qualified
- Components based on Proven, Fielded Technology
- Programmable Alarms and Display Characteristics
- Available in Single and Three Channel Configurations
- Stored Curve Corrections and Calibration Data (Field Programmable)
- Analog and/or Digital Retransmission of processed data
- Built in Test
- Three wire or four wire RTDs
- Monitors two RTDs per channel; displays highest temperature

#### CONSISTING OF:

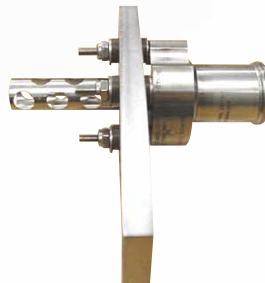
- Prime Technology Model 9227 Smart Indicators
- Modular Power Supply
- Bulkhead Mount Chassis
- Prime Technology RTD Temperature Sensors

### Description

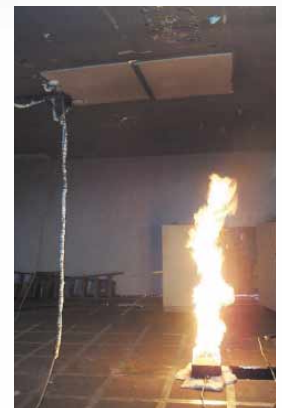
- **Modular System Design with Common Components Already within the Military Procurement System**
- **Prime Technology Patented Cloning Technology Included** – a new indicator module can be automatically uploaded with curve correction and parameter data from an operating indicator by simply plugging the Indicator into the cloning port.
- **Alarms**
  - > Programmable Alarm Set Points
  - > Flashing 4 Digit Numeric Display upon Alarm Condition
  - > Common Alarm –Contact Switching 24VDC, 150mA
  - > Internal Audible Alarm and Alarm Silence Switch
  - > External Alarm and External Alarm Switch
  - > Alarm Acknowledge Switch – resets local Alarm Indicator Lamp
- **Display Dimming – Analog or TTL PWM Control**
- **Continuously Monitors Health of RTD Sensors**
- **Bicolor Sensor Status Indicators**
- **Redundant RTD Sensor, 2 RTD Sensors per Channel**
- **Analog and/or Digital Retransmission of processed data**
- **Switch Configurable; internal or external switched**
- **1 Bi-directional Communication Port**
- **Remote Mimic of channel**



FRONT VIEW



Fast Response Sensor Technology



RTI less than 1 Second MIL-T-24388

model **9219**

# RTD Temperature Measurement, Display and Monitoring System

## Technical Specifications

### ■ GENERAL

#### Ambient Temperature Range

Storage -40°F - 154°F  
 Operating 32°F - 122°F

#### Input Power

Voltage 115 VAC  
 Frequency 60 HZ  
 Current 250mA (max.) Single Channel  
 600mA (max.) Three Channel

#### Display Characteristics

##### DIGITS

Color Red (λ = 660nm)  
 Segments 4 - (7) Segments LED

##### BAR GRAPH

Color Red (λ = 660nm)  
 Segments 101 Segments LED

##### DIMMABLE DISPLAY

Analog  
 Pulse Width Modulation Control

#### Digital I/O

RS232/422/485 Serial data transceiver

#### Common Alarm Output

Contact Switching 24VDC @ 150mA

#### Isolation

Input Power >10 MΩ @500VDC  
 Signal Inputs  
 Alarm Outputs

### ■ PERFORMANCE

#### System Accuracy

± 2 Degrees  
 Fahrenheit

#### Resolution

15 binary bits

#### RTD Sensor Response Time

< 1 second

### ■ PHYSICAL

#### Weight

20 lbs (max.) Single Channel  
 30 lbs (max.) Dual Channel

#### Overall Dimensions

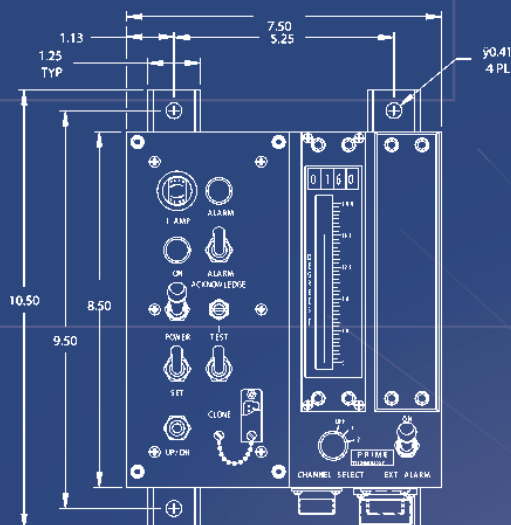
(Single Channel)  
 10.50" L x 7.50" W x 10.10" D  
 (Three Channel)  
 10.50" L x 11.00" W x 10.10" D

#### MIL Specifications:

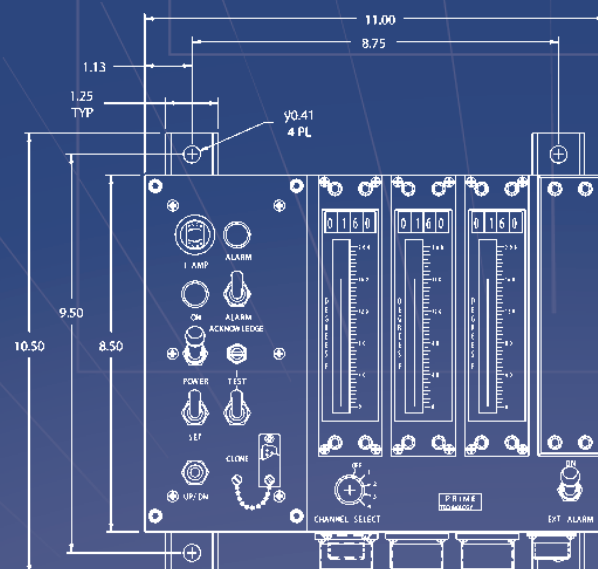
- EMI MIL-STD-461
- Shock MIL-S-901
- Vibration MIL-STD-167
- Drip-Proof MIL-STD-108
- Salt Spray MIL-STD-202
- DC Magnetic Field MIL-STD-1399, Part 70

## Dimensions

Single Channel



Three Channel



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