

FEATURES

Simple Elegance[™] architectural styling

• User Interface:

- LCD Display
 Top Line: 8 Character
 Alphanumeric
 Bottom Line: 4-digit
 Discreetly Concealed
 4 push-buttons with
 programmable functionality
- Precision SAPTM
 Temperature Sensor
- Precision Field Replaceable SAP™ Humidity Sensor
- Fully Programmable Push Button Adjustments for maximum flexibility.
- 2 Wire Connection to SC100-MP & SC160-MP Family of Controllers. Easy to retrofit where only a 2 wire sensor used to exist.
- Optional 2.5mm communication jack and terminals.
- Engineered for Superior Accuracy & Performance SAP™
- 2 Year Limited Warranty

PROGRAMMABLE Sensor Interface

SI-20-TH

DESCRIPTION

The SI-20-TH sets a new standard in aesthetics and functionality. The architectural design of the SI-20-TH was achieved through the input of industry professionals, as well as a multitude of end users. Its' copyrighted design has been described as "Simple Elegance". The SI-20-TH quietly blends in to its surroundings and is as comfortable on the boardroom wall as it is in a classroom. Rave reviews have also been received by custom homeowners and designers. Architects and designers can now work in harmony with engineers and contractors. The aesthetic integrity of a building no longer has to be compromised to deliver optimum comfort and performance.

The simply elegant design of the SI-20-TH is only enhanced by it's Superior Accuracy and Performance (SAP™). Optimum user functionality has been built in to every SI-20-TH. The SI-20-TH Interface is fully programmable to accommodate the "EXACT" user requirements for each project. When an adjustment is made through the SI-20-TH, visual feedback is provided through the integral LCD display. The custom designed display incorporates 4 digits as well as 8 alphanumeric characters to aid in the simplicity of use and design.

Programmable Adjustment

The "up" and "down" as well as the "menu" push-buttons are used to adjust the values defined by the application requirements. Up to 62 unique screens can be created yielding unprecedented flexibility in a cost effective User Interface.

Precision Internal SAP™ Sensors

The SI-20-TH incorporates a precision thermistor and a field replaceable humidity sensor for Superior Accuracy and Performance (SAP $^{\text{TM}}$) of the space environment assuring long term stability and maximum accuracy.

Override Push-button

In addition to the up, down arrows and menu buttons for user adjustment, the SI-20-TH has a 4th button for after hours override require



-3.13(79.5)Inches (Millimeters) 5.14 (130.6)1.04 (26.4)-3.00(76.2)0.88 (22.4)+ 2.09 (53.1)3.16 (80.3)AAAAAA SI-2.83 (71.9)0.88 (22.4)1.50 (38.1)

SPECIFICATIONS

Power/Communications

EC160 compatible: 2-wire SI-20 Communication Bus

Maximum Distance: 500 feet

Protection Circuitry: Reverse Polarity Protected

Communications Jack: 2.50mm (optional)

Environmental

Operating Temperature: 0 °C to +50 °C, 32 °F to 122 °F Storage Temperature: -20 °C to +70 °C, -4 °F to 158 °F Relative Humidity: 5% to 95% (non-condensing)

On-Board Temperature Sensor

Temperature Sensor: Precision Thermistor, 10K Type II Accuracy: ±0.2 °C, ±0.36F (0 to 50 °C)

Accuracy. ±0.2 C, ±0.36F (0.10.50

On-Board Humidity Sensor

Humidity Sensor: CMOSSens® Chip
Accuracy: ±2.0 % (10 to 80 %)
Operating Humidity Range: 0 to 100% Humidity

Enclosure

Display:

Upper Line: 8 Character Alpha-Numeric Lower Line: 4 Digit LCD Display

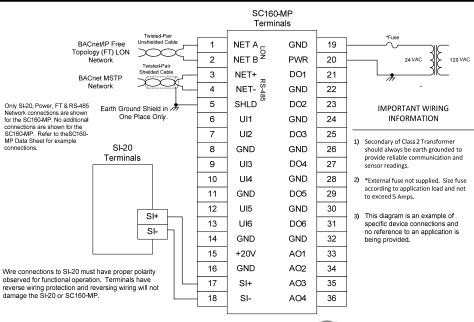
Push Buttons: 4 Fully Programmable for User Functionality

Dimensions: L 5.14" x W 3.13" x H 1.04" (130.6 x 79.5 x 26.4 mm) Material: ABS, UL 94-VO rated

Warranty

Period: 2 Years (Limited)

EXAMPLE WIRING DIAGRAM



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