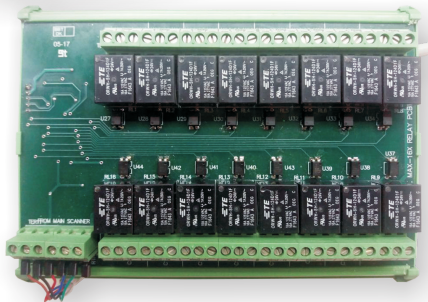




TEMPERATURE SCANNERS

MAX-16X



OVERVIEW

The ASHE MAX series Temperature Scanners are part of a range of fully configurable micro-controller based instruments with control outputs, offered in a highly compact, rugged and reliable execution. The instrument has six keys on the front panel, with which the operator can set the parameters and configure the instrument as desired. A two-digit display indicates the channel number, while a four-digit large display indicates the corresponding temperature.

The instrument have non-volatile memory. The instruments accepts input from sixteen nos. RTD Pt-100 or Thermocouple sensors or 4-20 mA DC analog signal. The instruments are calibrated as specified.

The Temperature Scanner MAX-16X provides sixteen control Relay outputs corresponding to the input channels, providing alarm or trip set-points for any channel. The set points are configured through the Membrane Keypad on the front panel. The instrument operates on universal AC power supply and is offered in standard panel-mount execution with a separate Extension Terminal board for Relay contact termination.

The instrument offers a Modbus output. The data communication between instrument and computer can be done using RS-485 on Modbus RTU protocol.

The temperature is factory calibrated to the desired operating range of the input sensor through the instrument software and may be changed, if specifically required. Other features include it's inherent accuracy and immunity to shocks, dust, ambient temperatures, and humidity. It is also available in standard panel mounting enclosures.

Further, the instrument is manufactured using selected high-grade components which guarantee it's functionality and long operational life. The instrument carries a performance warranty against defects in design and workmanship.

SPECIFICATIONS

Model	MAX-16X (sixteen-channel, panel mount) with Extension Terminal Board.
Type	Microcontroller based Multi-channel process Scanner
Input Signal	RTD Pt-100 (three-wire), Thermocouple J.K, 4 to 20mA DC
Display Indications	Seven-segment, red LED displays. Four-digit display for Temperature. Two-digit display for Channel number.
LED Indications	16 LEDs for Channel faults & Alarm 16 Red LEDs for Relay Status
Scale Range	To be specified
Response time	Typically 80 mS.
Output	Sixteen control relay single changeover contacts one for each input.
Contact rating	10 Ampere @ 230 V AC (Resistive Loads).
Retransmission	4 to 20 mA DC (configurable to any channel)
Load driving capacity	600 Ohms
Communication	RS485 on Modbus RTU protocol.
Memory	Non-Volatile (on EEPROM).
Settings	By Touch key Membrane Keypad
Features	Scale calibration, Alarm/Trip, Channel Faults, Channel Skip, Scan/Hold etc.
Accuracy	±0.2% FS.
Power Supply	90 to 270 VAC, 50 Hz universal AC power.
Enclosure	Panel mounting.
Dimensions	160 x 80 x 120 mm [W x H x D].
Cutout Dimensions	151 x 75 mm.
Weight	Approximately 1.0 kgs.

FEATURES

- Microcontroller based design.
- Several types of Temperature Sensors / Analog inputs options
- 16 channel scanning
- High accuracy and linearity to input signal
- Dual 2/4-digit seven-segment LED displays for channel / process
- Sixteen Relay change-over contacts
- Very low power consumption and heat dissipation
- Fully configurable
- Analog Retransmission outputs
- Universal AC Power Supply
- RS 485 on Modbus RTU comm
- Rugged, industrial grade ABS enclosure with DIN Rail mounted Extension board for Relay contacts
- High Noise immunity.
- Proven record of several thousand installations
- Lifetime Warranty on design and workmanship