

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 has non-volatile memory. The instrument accepts input from sixteen nos. RTD Pt-100 or Thermocouple sensors. The instrument is calibrated as specified.

The Temperature Scanner provides sixteen control Relay outputs configurable to any of 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.

The instrument offers RS485 communication on MODBUS RTU. Further, two analog retransmission outputs are offered which may be configured to any inputs.

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.

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.

All ASHE range of instruments carry a lifetime warranty for design and workmanship.



SPECIFICATIONS

Model	MAX-16X (sixteen-channel, panel mount)
Type	Microcontroller based Multi-channel Temperature Scanner
Input Signal	RTD Pt-100 (three-wire), Thermocouple J.K
Display	Seven-segment, red LED displays.
Indications	Four-digit display for Temperature. Two-digit display for Channel number.
LED Indications	Yellow LEDs for Channel faults & Alarm Red LEDs for Relay Status
Scale Range	-70.0 to 500°C [Fully Configurable].
Response time	Typically 100 mS.
Output	Sixteen control relay single changeover contacts – configurable to selected channel.
Contact rating	10 Ampere @ 230 V AC (Resistive Loads).
Retransmission	4 to 20 mA DC.
Load driving capacity	600 Ohms
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 150 mm [W x H x D].
Cutout Dimensions	154 x 74 mm.
Weight	Approximately 1.0 kgs.
Communication	RS485 on Modbus RTU protocol.

FEATURES

- Microcontroller based design.
- Several types of Temperature Sensors
- Various channel options : 2/4/8/16
- High accuracy and linearity to input signal
- Dual 2/4-digit seven-segment LED displays
- Sixteen Relay change-over contacts
- Very low power consumption and heat dissipation
- Fully configurable
- Two Analog Retransmission outputs. RS485 commercial
- Universal AC Power Supply
- On-Off control action options
- Rugged, industrial grade ABS enclosure
- High Noise immunity.
- Proven record of several thousand installations
- Lifetime warranty on design and workmanship