ASHE CONTROLS PVT LTD
an ISO 9001:2015 certified company

MAX-4U/8U/16U

MAX-Series Temperature Scanners







RoHS Compliant

MAKE IN INDIA

Modbus

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 display indicates the corresponding temperature.

The instrument has non-volatile memory. The instrument accepts input from 4 / 8 / 16 nos. RTD Pt-100 or Thermocouple sensors, or 4-20 mA analog signals. The instrument is calibrated as specified.

The Temperature Scanner provides upto 16 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 DIN standard panel-mount execution.

The Temperature Scanners offer data communication over a RS485 serial port on Modbus RTU protocol (optional). 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 field-mounting (weather-proof/explosion-proof executions) and 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.

This product is backed by a full two-year warranty, covering all manufacturing defects and workmanship issues under normal operating conditions.

Specifications

Model	ASHE MAX-4U (Four-channel) ASHE MAX-8U (Eight-channel) ASHE MAX-16U (Sixteen-channel)
Type	Microcontroller based Multi-channel Temperature Scanner
Input Signals/Sensors	4 to 20 mA DC, Temperature Sensors RTD Pt 100, Thermocouples Type J,K,R,S,T etc.
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	Fully configurable.
Response Time	Typically 100 mS.
Control Relay Outputs	Upto 16 control relay changeover contacts – configurable to selected channel.
Contact Rating	10 Ampere @ 230 VAC (Resistive Loads).
Retransmission	4 to 20 mA DC (optional)
Load Driving Capacity	600 Ohms
Communication	RS485 on Modbus RTU (optional).
Memory	Non-Volatile (on EEPROM).
Settings	By Membrane Keypad on the front panel.
Features	Scale calibration, Alarm/Trip, Channel Faults, Channel Skip, Scan/Hold
Accuracy	$\pm$ 0.2% FS.
Power Supply	90 to 270 VAC, 50/60 Hz Universal AC Power Supply.
Dimensions	96 x 96 x 120 mm [W x H x D].
Execution	Panel mounting (with Din Rail mount Extension Board)
Enclosure	Industrial Grade ABS
Weight	Approximately 1.0 kgs.
Operating Temperature	0 to 55^{0}C

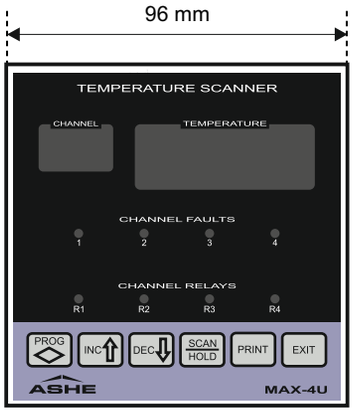
Features

- Microcontroller based design
- Standard Temperature Sensors / Analog inputs
- Various channel options : 2/4/8/16
- High accuracy and linearity to input signal
- Dual 2/4-digit seven-segment LED displays
- 16 Relay change-over contacts
- Very low power consumption and heat dissipation
- Fully configurable
- Retransmission option
- Universal AC Power Supply
- RS485 Modbus Communication option
- On-Off control action options
- Rugged, industrial grade ABS enclosure
- High noise immunity
- Panel mount installation
- Two-year Performance Warranty
- Proven track record of successful site installations

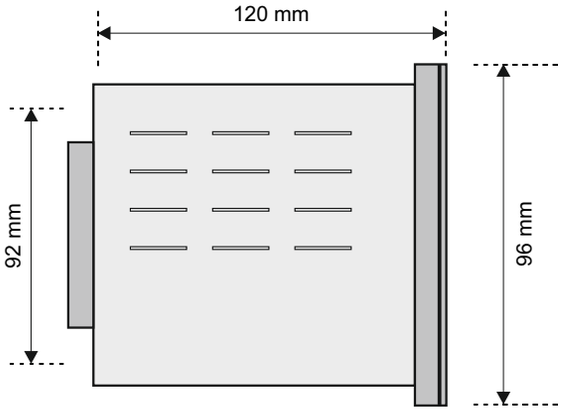
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MAX-Series Temperature Scanners

Dimensional Diagram



FRONT VIEW



SIDE VIEW

How To Order

TEMPERATURE SCANNER	**MAX**						
Configuration and add-on options							
1 CHANNEL OPTIONS							
▸ Four Channel		4U					
▸ Eight Channel		8U					
▸ Sixteen Channel		16U					
▸ Sixteen Channel		16X					
2 POWER SUPPLY							
▸ AC Voltage 90 to 270 VAC, 50/60 Hz.			A				
▸ DC Voltage 24 V DC (±10%).			D				
3 INPUT SIGNALS							
▸ Analog 4-20 mA DC				L			
▸ RTD Pt-100 (three-wire)				R			
▸ Thermocouple (type to be specified)				T			
4 EXECUTION							
▸ Panel Mount					P		
▸ Flameproof					X		
5 COMMUNICATION							
▸ RS485 on Modbus RTU Required						M	
▸ Modbus RTU Not Required						N	
6 RETRANSMISSION							
▸ Retransmission Required							R
▸ Retransmission Not Required							N

Our Other Products



FLOW TOTALIZER



SIGNAL ISOLATORS & TRANSDUCERS



TEMPERATURE SCANNER



FLAMEPROOF INSTRUMENTS



STATIC POWER SWITCHES

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