ASHE CONTROLS PVT LTD
an ISO 9001:2015 certified company

MAX-Series

Temperature Scanners

RoHS Compliant

MAKE IN INDIA

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 four / eight / sixteen nos. RTD Pt-100 or Thermocouple sensors, or 4-20 mA analog signal. The instrument is calibrated as specified.

The Temperature Scanner provides four 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 instrument has a MODBUS RTU output. The communication between instrument and computer can be done using RS-485 to RS-232 converter.

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.

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 like 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 Four Red LEDs for Relay Status
Scale Range	Fully configurable.
Response Time	Typically 100 mS.
Control Relay Outputs	Upto Four control relay changeover contacts – configurable to selected channel.
Contact Rating	10 Ampere @ 230 V AC (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	± 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 (Din Rail mount Extension Board for MAX-16U
Enclosure	Industrial Grade ABS
Weight	Approximately1.0 kgs.
Operating Temperature	0 to 55°C

Features

- Microcontroller based design
- Several Temperature Sensors / Analog inputs
- Various channel options : 4/8/16
- High accuracy and linearity to input signal
- Dual 2/4-digit seven-segment LED displays
- Four 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
- Proven record of several thousand installations

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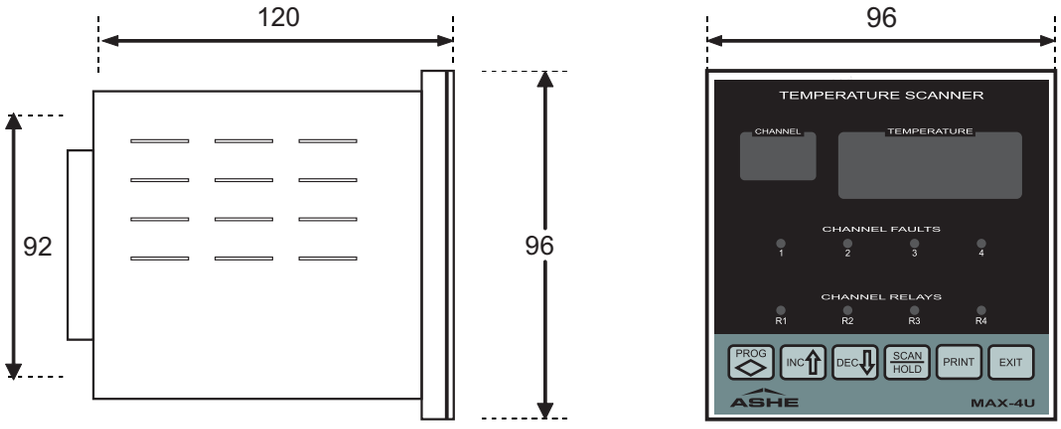
Dimensional Diagram



How To Order

TEMPERATURE SCANNER	MAX					
Configuration and add-on options						
1 CHANNEL OPTIONS						
▸ Four Channel		4U				
▸ Eight Channel		8U				
▸ Sixteen Channel		16U				
2 INPUT SIGNAL						
▸ 4 to 20 mA DC			L			
▸ RTD Pt - 100 (three-wire)			R			
▸ J type Thermocouple (0 to 750°C)			J			
▸ K type Thermocouple (0 to 1200°C)			K			
▸ R type Thermocouple (0 to 1600°C)			P			
▸ S type Thermocouple (0 to 1800°C)			S			
▸ T type Thermocouple (-200 to 350°C)			T			
3 POWER SUPPLY						
▸ 90 to 270 V AC, 50/60 Hz.				A		
▸ 24 V DC (±10%).				D		
4 OUTPUT SIGNAL						
▸ Retransmission of 4 to 20 mA DC (available in MAX 4U)					G	
▸ Retransmission not required					N	
5 COMMUNICATION						
▸ RS 485 on Modbus RTU						M
▸ Modbus RTU not required						N

Our Other Products


FLOW TOTALIZER


SIGNAL ISOLATORS & TRANSDUCERS


TEMPERATURE SCANNER


FLAMEPROOF INSTRUMENTS


STATIC POWER SWITCHES

Designed and Manufactured by :
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