

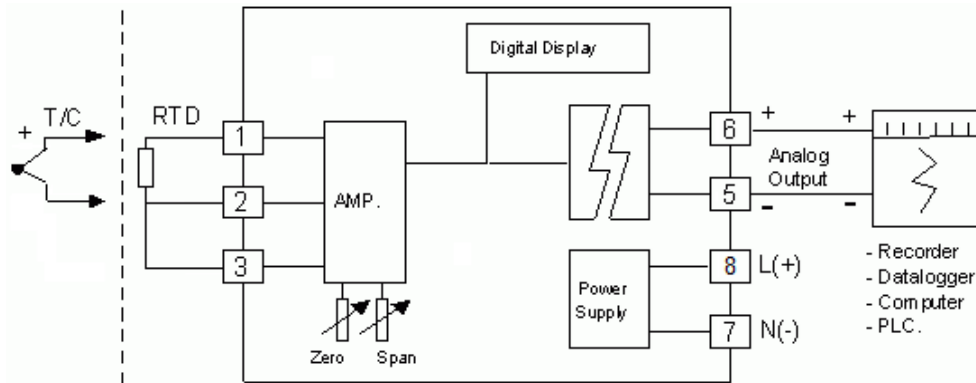
Temperature Indicator

TI20



- 3 1/2 digits LED display
- Thermocouple or RTD Sensor
- 4-20 mA, 0-10 VDC, Analog Output

Temperature Indicator TI20 This device displays temperature readings numerically. It is compatible with thermocouple or RTD sensors and features an analog output for connection to a recorder or PLC.



Specifications

Monitor

Display: 3 1/2 Digits, 14.3 mm. (7-Segment)

Display Color: Red (std)

Scaling Factor: Zero and Span Adjustable

Dacimal Point: 3 Positions Selectable by Jumper

Read Rate: 2.5 / sec.

Diplay Hold: Available by External Contact

Input

Number of Channel: 1 Channel

Input Type: Thermocouple, RTD

Input Range:

Thermocouple Type K (0 to 1200 °C)

Thermocouple Type K (0 to 400 °C)

Thermocouple Type R (0 to 1600 °C)

Thermocouple Type S (0 to 1600 °C)

Thermocouple Type J (0 to 600 °C)

Thermocouple Type L (0 to 600 °C)

RTD PT100 ((-)100.0 to 100.0 °C,
0 to 199.9 °C, 0 to 500 °C)

Analog Output

Number of Channel: 1 Channel

Output Type: Current, Voltage

Output Range:

Current (4 to 20 mA (Optional))

Voltage (1 to 5, 0 to 10 VDC)

Output Impedance: Current Max. Load
1000 Ω

Power Requirements

Power Supply: 110, 220 VAC

(24, 48, 110, 125 VDC (Optional))

Environmental Limits

Operating Temperature: 0 to 55 °C

Operating Humidity: 5 to 95% RH

Storage Temperature: 0 to 70 °C

Physical Characteristics

Dimension: W96 x H48 x D120 mm.

Panel Cutout: W90 x H40 mm.

Mounting: Panel Flush Mounting

Wiring: Screw Terminals

Warranty

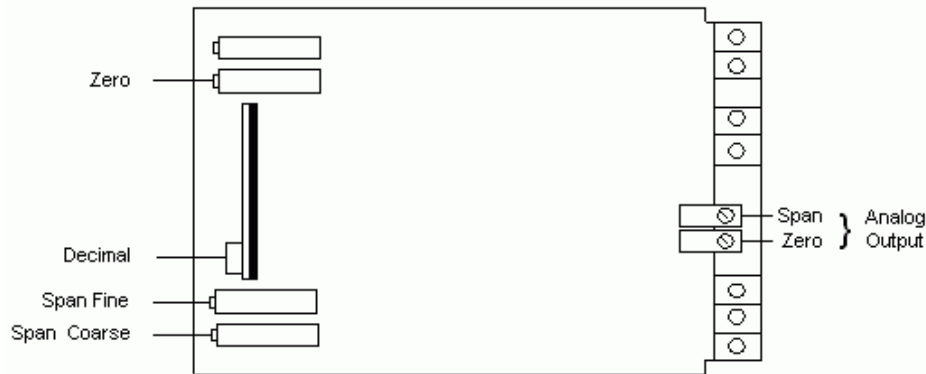
Warranty Period: 5 Year

Ordering Information: Specify Input, Power Supply, Analog output

Example TI20/(K)0-1200°C/220VAC/4-20mA

Package Checklist

1. TI20



How to Calibrate the Display

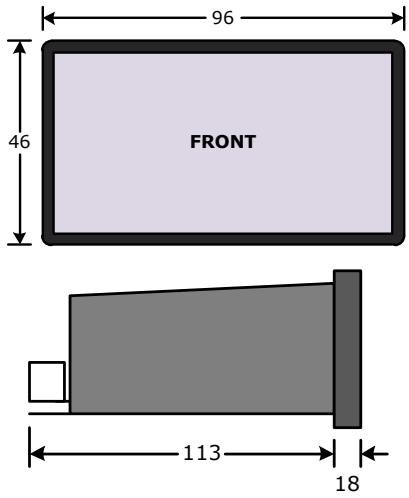
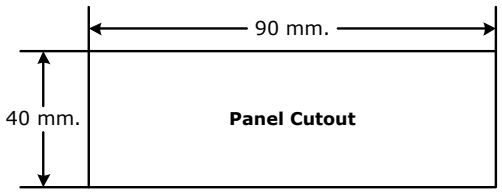
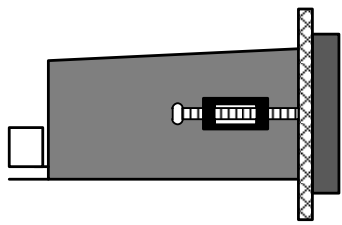
Open the front panel to reveal the "ZERO" and "SPAN" adjustment knobs, arranged as shown in the figure.

1. Apply an input signal at 0% of the input range. Adjust the "ZERO" knob until the display shows the minimum temperature of the input range.
2. Apply an input signal at 100% of the input range. Adjust the "SPAN" control until the display shows the maximum temperature of the input range.
3. Repeat steps 1 and 2 alternately until the temperature value can be displayed according to the input range.

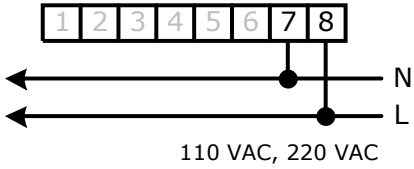
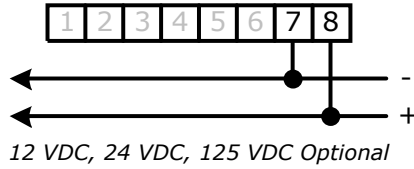
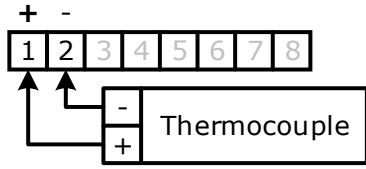
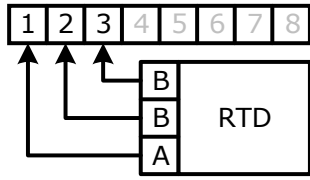
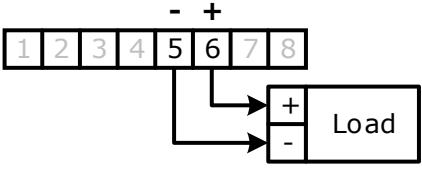
How to Calibrate Analog Output

The "ZERO" and "SPAN" adjustment knobs for calibrating the analog output are located on the back of the unit.

1. Apply an input signal at 0% of the input range and adjust the "ZERO" control until the analog output reaches the minimum value of the output range.
2. Apply an input signal at 100% of the input range. Adjust the "SPAN" control until the analog output reaches the maximum value of the output range.
3. Repeat steps 1 and 2, alternating between them, until the desired analog output value is obtained.

Dimensions (Unit: mm.) 	Panel Cutout  Installation 
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Wiring

Supply  110 VAC, 220 VAC	 12 VDC, 24 VDC, 125 VDC Optional
Thermocouple Input 	RTD Input 
Analog Output (Optional)  1-5VDC, 0-10VDC, 4-20mA Optional	