

Digital Temperature Indicator TRD20

Microprocessor Based

ELECTRONIC TEMPERATURE SENSORS

- ▶ 96 mm x 48 mm (1/8 DIN)
- ▶ RTD, Thermocouple, Current & Voltage Inputs Available
- ▶ Analog Output or Interface Available
- ▶ Optional Alarm



The Trerice **TRD20 Digital Indicator** is a superb choice when remote digital indication is required. The 4 times per second sampling cycle provides accurate, reliable monitoring and the large LED display provides easy readability from a distance. The TRD20 can be used with any Trerice RTD, Thermocouple or Transmitter and can be ordered with an RS-485, RS-422A or RS-232C Communications Interface. Size is 96 mm x 48 mm (1/8 DIN).

Specifications

Model

TRD20

Display 4 digit, 14.3 mm red LED
Sampling Cycle: 4x/second

Input Thermocouple: Type J, Type K
RTD: Platinum, 100Ω, 3-wire
Current: 4-20 mA, 0-20 mA switchable
Voltage: 0-10 mVDC, 0-50 mVDC, 0-100 mVDC switchable;
0-1 VDC, 0-5VDC, 0-10VDC switchable

Power Requirements

Supply Voltage:
100-240 VAC/50/60 Hz,
24 VAC/50/60 Hz, 24 VDC

Consumption:
100-240 VAC: Approximately 6-8 VA
24 VAC: Approximately 8 VA
24 VDC: Approximately 8 W

A/D Conversion

Microprocessor

Accuracy ±0.25% + 1 digit of measuring range

Ambient Temperature

Maximum: 122°F (50°C)
Minimum: 14°F (-10°C)

Humidity Maximum: 90% RH

Approximate Shipping Weight

0.7 lbs [0.31 kg]

HOW TO ORDER

Sample Order Number: **TRD20 2 90 00 04 00**

Model	Input	Power Supply	Alarms	Analog Output/Interface	Sensor DC Power Supply*
TRD20	1 Thermocouple	90 100-240 VAC 50/60 Hz	00 None	00 None	00 None
	2 RTD	10 24 VAC 50/60 Hz	10 2 point individual setting	03 0 to 10 mVDC	24 24 VDC 50 mA
	3 mVDC	02 24 VDC		04 4 to 20 mA	
	4 mA			06 0 to 10 VDC	
	5 VDC			15 RS-485	
				16 RS-422A	
				17 RS-232C	

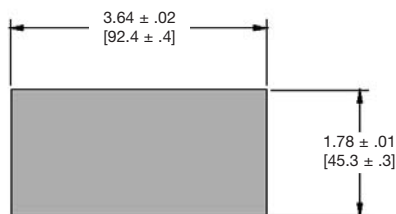
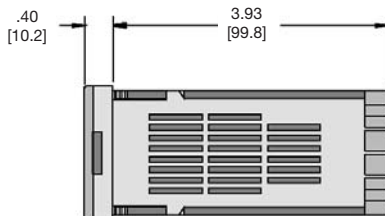
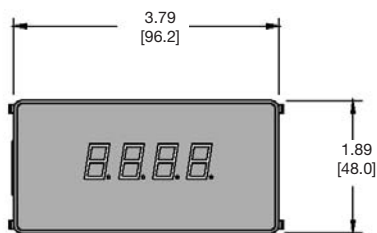
*N/A with 24 VAC or 24 VDC power supply

Digital Temperature Indicator TRD20

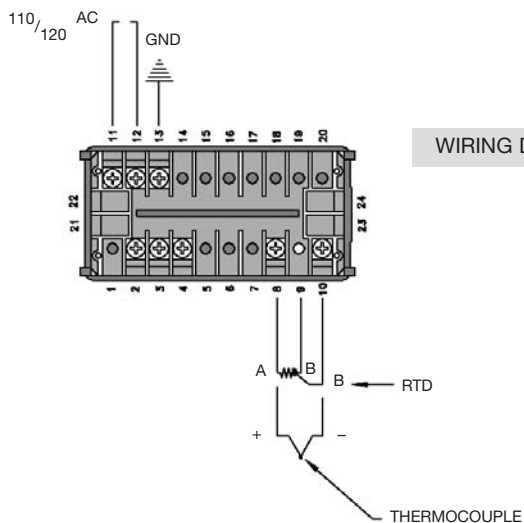
Microprocessor Based

All dimensions are nominal.
Dimensions in [] are in millimeters.

ELECTRONIC TEMPERATURE SENSORS



PANEL CUTOUT DIMENSIONS



WIRING DIAGRAM

Programmable Inputs and Ranges

Input		Range			
Code	Type	Code	Fahrenheit	Code	Celsius
1J	Type J Thermocouple	A71	-148° to 1112°F	A26	-100° to 600°C
1K	Type K Thermocouple	A79	-328° to 2192°F	A74	-200° to 1200°C
		A72	-148° to 1472°F	A27	-100° to 800°C
2F	100 Ω RTD	A78	-328° to 1112°F	A31	-199.9° to 600.0°C
		A61	32.0° to 212.0°F	A02	0.00° to 99.99°C
32	0 to 10 mV	Scaling Range: -1999 to 9999 Span: 100 to 10,000			
34	0 to 50 mV				
36	0 to 100 mV				
41	0 to 20 mA				
42	4 to 20 mA				
62	0 to 1 V				
64	0 to 5 V				
66	0 to 10 V				

Input and Range Codes are not required for ordering, but are used for field programming.