CONTROL PRODUCTS

Innovative Technologies in Custom Electronic Design & Manufacturing

General Description

The TI-100 series temperature indicator provides accurate temperature display for panel mount applications.

Applications

Applications include heating, cooling, refrigeration, HVAC, food service, medical and industrial equipment.

**TEMPERATURE INDICATORS
TI–100 / TI–100H
TI–100K / TI–100J
TI–100RTD**

Features

• 0.56" high red LED four digit display
• Panel mount enclosure

• Variety of temperature ranges and sensor inputs
• Scratch resistant lens

Specifications

Power requirements: Available in 12 or 24 VAC (2VA) models, or 12 or 24 VDC (100mA) models (J and K thermocouples available in 24 volt only)
Ambient temperature range: 20° to 158°F, – 6° to 70°C

Agency approvals: NSF listed depending on model (consult factory)
Accuracy: Varies with sensor (see table below)
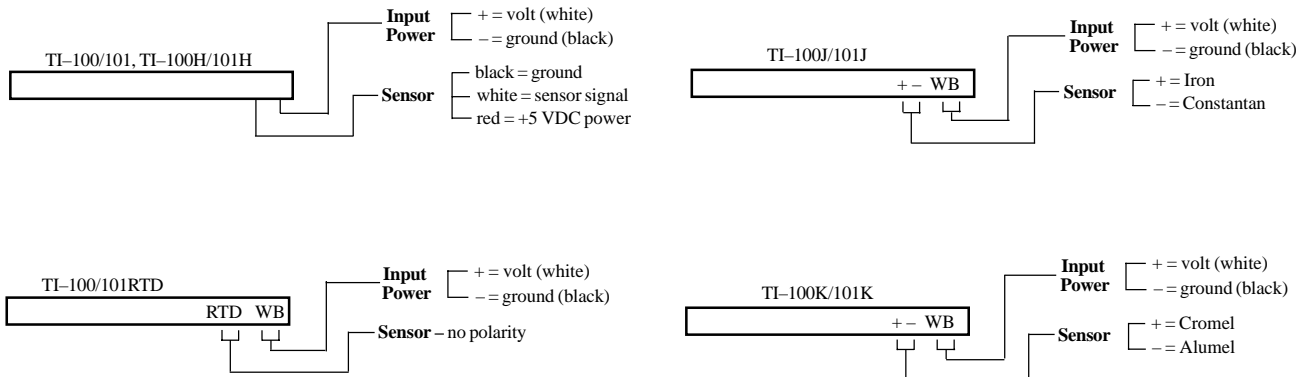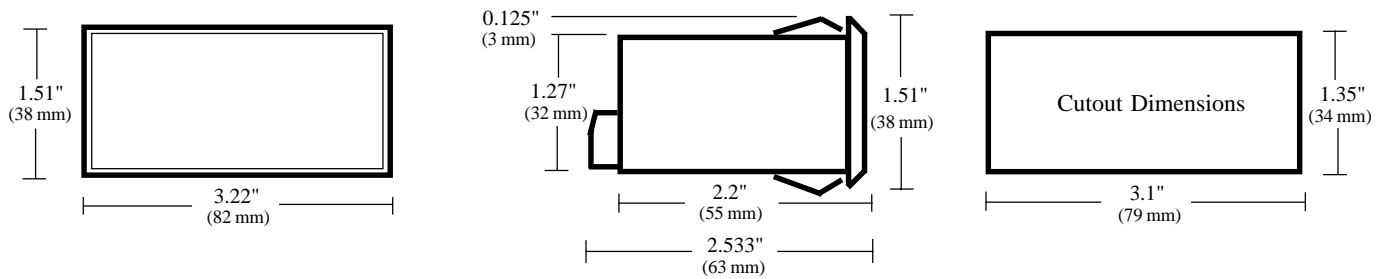**Humidity:** 90% non-condensing
Weight: 3.6 oz.

Series	Temperature Range °F / °C	Accuracy	Sensor Type
100/101	–40.0 to 199.9°F / –40.0 to 130.0°C	$\pm$ 1.0°F/0.5°C	Semi-conductor with vinyl cap and 36" of three conductor 26 AWG wire (included)
100H/101H	–40 to 300°F / –40 to 149°C	$\pm$ 1°F/1°C	Semi-conductor with nickel plated copper cap and 36" of three conductor 26 AWG wire (included)
100J/101J	0 to 1400°F / –18 to 760°C	$\pm$ 2°F/1°C	J type thermocouple (not included - see TS-10J)
100K/101K	–50 to 1250°F / –45 to 677°C	$\pm$ 2°F/1°C	K type thermocouple (not included - see TS-10K)
100RTD/101RTD	–150 to 1250°F / –100 to 675°C	$\pm$ 2°F/1°C	100 ohm platinum RTD two wire sensor (not included - see TS-10RTD)

Dimensions & Wiring

0.125" (3 mm)

1.51" (38 mm)

3.22" (82 mm)

1.27" (32 mm)

2.2" (55 mm)

2.533" (63 mm)

1.51" (38 mm)

Cutout Dimensions

1.35" (34 mm)

3.1" (79 mm)

TI–100/101, TI–100H/101H

Input Power
+ = volt (white)
– = ground (black)

Sensor
black = ground
white = sensor signal
red = +5 VDC power

TI–100J/101J   + – WB

Input Power
+ = volt (white)
– = ground (black)

Sensor
+ = Iron
– = Constantan

TI–100/101RTD   RTD WB

Input Power
+ = volt (white)
– = ground (black)

Sensor – no polarity

TI–100K/101K   + – WB

Input Power
+ = volt (white)
– = ground (black)

Sensor
+ = Cromel
– = Alumel

Ordering Information

Please use the following example when ordering:

TI – 100 J – 24

TI = Temperature Indicator

100 or 101 series
100 = °F
101 = °C

Sensor Type
Blank = semi-conductor
H = semi-conductor, extended range
J = J thermocouple
K = K thermocouple
RTD = 100 ohm platinum RTD

Supply Voltage Options
24 = 24VAC/VDC
12 = 12VAC/VDC
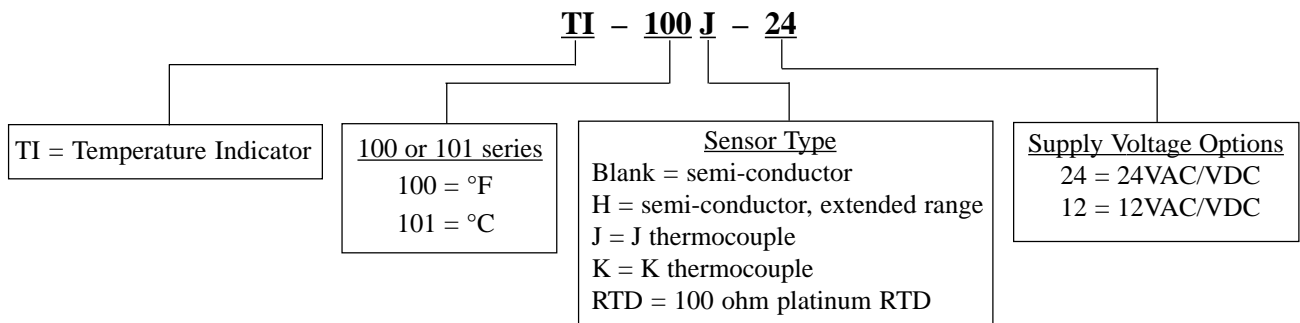
Custom Design & Modifications

In addition to standard models, Control Products specializes in complete custom design of electronic controls. Modifications of our standard controls are also available. Please consult factory for more information.

Warranty

Control Products, Inc. warrants its products to be free from defects in material and workmanship under normal use for one year and is not responsible for consequential damages or installation costs of any nature. Exposure to contaminants and extreme environmental conditions such as moisture, temperature, chemicals, etc. may cause the unit to degrade or fail. Control Products accepts no liability for product applications or customer application testing.