

# PAXT0000

## LED Indicator - Temperature Signals



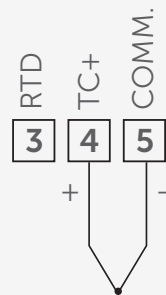
The PAXT LED Indicator Panel Meter is a 5-digit panel mount display for digital readout of temperature signals. This model has a red sunlight readable LED. The intensity of display can be adjusted from dark room applications up to sunlight readable, making it ideal for viewing in bright light applications.

Optional digital output cards provide the meter with two set-point relay outputs. The set-point alarms can be configured to suit a variety of control and alarm requirements. A linear DC output signal is also available as an optional card. The card provides either 4 to 20mA or 0-10V signals.

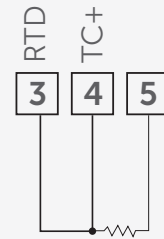
Once the meters have been initially configured, the parameter list may be locked out from further modification in its entirety or only the set-point values can be made accessible

### INPUT SIGNALS:

#### Thermocouple



#### 3-Wire RTD



### Thermocouple Input:

Type	Range
T	-200 to 400°C
E	-200 to 871°C
J	-200 to 760°C
K	-200 to 1372°C
R	-50 to 1768°C
S	-50 to 1768°C
B	100 to 300°C
N	-200 to 1300°C

### Linear Resistance Input:

Type	Range
Pt100	-200 to 400°C
Nickel 120	-80 to 260°C

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### Specification

**Display** 5 digit, 14.2 mm red sunlight readable LEDs, (-19999 to 99999)

**Power:**

**AC Power** 85 to 250 VAC, 50/60 Hz, 15 VA

**Isolation** 2300 Vrms for 1 min. to all inputs and outputs.

#### Annunciators:

**MAX** maximum readout selected

**MIN** minimum readout selected

**TOT** totalizer readout selected, flashes when total overflows

**SP1** setpoint alarm 1 is active

**SP2** setpoint alarm 2 is active

**Keypad** 3 programmable function keys, 5 keys total

**A/D Converter** 16 bit resolution

#### Update Rates:

**A/D Conversion Rate** 20 readings/sec.

**Step response** 200 msec. max. to within 99% of final readout value (digital filter and internal zero correction disabled) 700 msec. max. (digital filter disabled, internal zero correction enabled)

**Display update rate** 1 to 20 updates/sec.

**Setpoint output on/off delay time** 0 to 3275 sec.

**Analog output update rate** 0 to 10 sec

**Max./Min. capture delay time** 0 to 3275 sec.

### Input Capabilities:

**Thermocouple Inputs:**

**Input Impedance** 20 MΩ

**Lead Resistance Effect** 0.03μV/ohm

**Max. Continuous Overvoltage** 30 V

#### RTD Inputs:

**Type** 3 or 4 wire, 2 wire can be compensated for lead wire resistance

**Excitation current** 100 ohm range: 165 μA  
10 ohm range: 2.6 mA

**Lead resistance** 100 ohm range: 10 ohm/lead max.  
10 ohm range: 3 ohms/lead max.

**Max. continuous overload** 30 V

#### Low Frequency Noise Rejection:

**Normal Mode** > 60 dB @ 50 or 60 Hz ±1%, digital filter off

**Common Mode** >100 dB, DC to 120 Hz

#### Environmental Conditions:

**Operating Temperature Range** 0 to 50°C

**Vibration to IEC 68-2-6** Operational 5 to 150 Hz, 2 g.

**Shock to IEC 68-2-27** Operational 25 g (10 g relay).

**Storage Temperature Range** -40 to 60°C

**Operating and Storage Humidity** 0 to 85% max. RH non-condensing

### Certifications and Compliances:

**CE Approved** EN 61326-1 Immunity to Industrial Locations  
Emission CISPR 11 Class A

#### Safety requirements for electrical equipment for measurement control, and laboratory use:

**EN 61010-1** General Requirements

**EN 61010-2-030** Particular Requirements for Testing and Measuring Circuits  
RoHS Compliant

**UL Recognized Component** File #E179259

**UL Listed Component** File #E137808

**Type 4X Enclosure rating** (Face only)

**IP65 Enclosure rating** (Face only)

**IP20 Enclosure rating** (Rear of unit)

**Connections** High compression cage-clamp terminal block

**Wire Strip Length** 7.5 mm

**Wire Gage** 30-14 AWG copper wire

**Torque** 4.5 inch-lbs (0.51 N-m) max.

**Construction** This unit is rated for NEMA 4X/IP65 outdoor use. IP20 Touch safe. Installation Category II, Pollution Degree 2. One piece bezel/case. Flame resistant. Synthetic rubber keypad. Panel gasket and mounting clip included.

**Weight** 295 g

**Dimensions (mm) H x W x D** 49.5 x 96.5 x 104

**Panel cut-out (mm) H x W** 45 x 92

**Output option Cards** PAXCDL10 - Analog Output  
PAXCDS10 - Dual Setpoint Relay Output Card