



PT2060/30 TEMP Temperature Module

ProviTech's PT2060/30 TEMP temperature module is an 8 channel module which processes the incoming temperature sensor signal, compares it the alarm set-point and outputs the appropriate status information. Acceptable sensor signals include:

- ✓ **Thermocouple: E, J, K, T**
- ✓ **RTD: 3 wire or 4 wire Platinum**

The PT2060/30 TEMP module also provides additional information; such as, module status, alarm status, alarm history and system events. This information can be accessed via Modbus or the configuration software.

The PT2060/30 TEMP module is also equipped with local status indication. There are three LEDs which display the status of the monitoring channels.

- ✓ OK/TX LED indicates that both the module and the proximity probe systems in the field are working
- ✓ Alarm LED indicates the current alarm status of the module.
- ✓ Bypass LED indicates the channels have been programmed to be in the Bypass mode.



Specifications

Electrical

Power supply:

Internally converted by the rack power supply module

8.0W total typical for this module

Signal Input:

Type E (TC):

-100°C to +1000°C (-148°F to +1832°F)

Type J (TC):

0°C to +760°C (+32°F to +1400°F)

Signal Input Continued:

Type K (TC):

0°C to +1370°C (+32°F to +2498°F)

Type T (TC):

-160°C to +400°C (-256°F to +752°F)

RTD (100Ω 3 wire & 4 wire platinum,

alpha=0.0385):

-200°C to +850°C (-328°F to +1562°F)

RTD (120Ω 3 wire & 4 wire platinum):

-80°C to +260°C (-112°F to +500°F)

RTD (10Ω 3 wire & 4 wire platinum):

-100°C to +260°C (-148°F to +500°F)

Signal Conditioning (@25°C):

Accuracy:

+/-3°C

Resolution:

1°C

Cold Junction Compensation Sensor (used for TC measurement).

Accuracy: +/-1°C at 25°C



Electrical Continued

Static and Status Values:

Each of the options for this monitor module has been defined with static values. Those values can be accessed via the 4-20mA output or from the digital communication protocols

Direct temperature, OK, Alert, Danger, Bypass

Overall in 4-20mA Output:

Proportional to monitor full-scale; each channel has its own overall vibration output. The short of the 4-20mA will not affect system performance.

Maximum Load:

300 Ω

Alarm:

Alarm set-point:

Each channel has two alarm set-points which can be field adjusted from 0 to 100% FS

Set-point accuracy:

Better than 0.5% FS

Set-point repeatability:

Within 0.5% FS

Alarms:

Normally latching or normally non-latching

Alarm delay:

Alert delay can be set from 1 to 60 seconds with a time interval of 1 second

Danger delay can be set from 1 to 60 seconds with a time interval of 1 second

LED Indicators:

OK/TX: green. On / off / flash

Alarms: red

Bypass: red

CE Marks

The monitor module will have a CE approval with EMC conformity.

Environmental

Temperature:

Operation: -20°C to +65°C

Storage: -40°C to +85°C

Humidity:

95% non-condensing

Physical

Each module comes with two components- the front panel assembly and the back panel assembly.

Dimensions:

241mm (9.5in) X 24.5mm (0.96in)

Mounts in any of the 14 remaining slots. Slots 15 and 16 of system rack are reserved for the Power Supply and SIM modules.

Weight:

1.0 kg (2.0 lbs)

Order Information

PT2060/30-AX

AX: Back Panel IO module

A0: RTD

A1: TC

Back Panel Connectors Layout

