



Specification Guide A1-06a RTD Pod

At a glance...

Internal Sensors

- Ambient Temperature

External Sensors

- 100 ohm Platinum RTD
- Digital Input (Pulse/Contact/Timer)

INTERNAL SENSORS

Ambient Temperature

Temperature Range: -40°C to +70°C
 Temperature Accuracy at 25°C: ±1.4°C
 Temperature Accuracy over Full Range: ±2.1%FS
 Measurement Resolution: 0.21°C

EXTERNAL SENSOR INPUTS

100 ohm platinum RTD

Temperature Range: -100°C to +250°C
 Measurement Resolution: 0.085°C
 Accuracy at 25°C: ±0.2°C
 Accuracy over full range: ±2.1% FS
 TCR = 0.00385
 Source Current: 200 µA

Digital Input 1 (Pulse/Contact/Timer)

Timer Range: 24hrs
 Timer Resolution: 1ms
 Count Range: 2¹⁶
 Maximum Frequency: 2500 Hz counting; 40 Hz interval meas.
 Minimum Pulse Width: 25ms
 High Level Input Level (absolute maximum): 10V
 High Level Input Level (minimum): 2.4V
 Low Level Input (maximum): 0.5V
 Input Impedance (input voltage <3.3V, contact closure): 100 K Ω

GENERAL SPECS

Physical Size

3.5 in x 3.25 in x 2 in. (89mm x 83mm x 51mm)
 Weight: 8 oz. (227 g)

Power Options

100-240V AC 50-60Hz .2A
 DC Input 4-7VDC
 (3) AA Batteries (6 month life, 5 minute sampling intervals)

Wireless

Range: 250 ft
 Topology: Mesh
 Wireless Standard: IEEE 802.15.4
 Frequency: 2.4GHz DSS
 Power Output: -79dBm

Mounting Options

Wall, pole, or DIN rail (w/adapter)

Sampling Rate

User Settable 30s-24hr

Data Storage

256 Samples

Operating Environment

-40°C - 70°C , 5-95% RH

