



Specification Guide A1-02, A1-06

	A1-02 Temperature Pod	A1-06 RTD Pod
Internal Sensors		
Ambient Temperature	●	●
External Sensors		
Type K Thermocouple	●	
100 ohm Platinum RTD	●	●
Thermistor	●	
Digital Input (Contact Closure)	●	●
0-5V Analog Input	●	

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

- **Type K Thermocouple**
Thermocouple temperature Range: -200°C to +1200°C
Measurement Resolution: 3.7°C
Accuracy over 100°C to 1100°C Range : ±0.7% Range
Accuracy at 25°C: 6±3°C
Cold junction compensation range: 0°C to 70°C
- **100 ohm platinum RTD**
alpha = 0.00385
Source Current: 200 µA
Temperature Range: -200°C to +600°C
Measurement Resolution: 0.82°C
Accuracy over full range: ±0.32% FS
Accuracy at 25°C: ±0.21°C
- **Thermistor**
Thermistor Temperature at 25°: 10KΩ
Temperature Range: -40°C to +112°C
Accuracy over range of -10°C to +50°C: ±0.81% Range
Accuracy at 25°C: ±0.5°C
Measurement Resolution: 0.1°C
- **Contact Closure (Digital Input)**
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 KΩ
Input Impedance (input voltage >3.3V): 3.3KΩ
Minimum Pulse Width/Contact Closure Time: 12.5ms
- **Contact Closure/Digital Input**
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 KΩ
Input Impedance (input voltage >3.3V): 3.3KΩ
Minimum Pulse Width/Contact Closure Time: 12.5ms
- **0-5 Analog Input**
Range: 0 to 5 V
Measurement Resolution: 4.883 mV
Accuracy: ±0.28 %FS
Input impedance: 60 KΩ

GENERAL SPECS

- **Physical Size**
3.5 in x 3.25 in x 2 in.
Weighs 8 oz.
- **Time Stamp**
Resolution: 1 second
Accuracy: ±1 seconds
- **Power Options**
5V DC input power supply (provided)
And/or
(3) AA Batteries
- **Mounting Options**
Wall, pole, or DIN rail (w/adapter)

460 Ward Drive, Santa Barbara, CA 93111
Toll Free: 866.670.3500 Local: 805.681.3500 Fax:
805.681.3501

 **accsense** inc.
Fast and Easy Remote Physical Sensing