



# Specification Guide A1-04, A1-07

	A1-04 Analog Input Pod	A1-07 Digital Input Pod
<b>Internal Sensors</b>		
Ambient Temperature	•	•
<b>External Sensors</b>		
4-20 mA Current Input w/ +20V Loop	•	
Digital Input (Contact Closure)	•	•
Counter	•	•
0-5V Analog Input w/ +5V Sensor Drive	•	

## 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

- **4 to 20 mA Current Input**

Range: 0 to 20mA  
 Measurement Resolution: 0.058mA  
 Accuracy: ±0.29%FS  
 Loop Impedance: 120 Ohms

- **Contact Closure (Digital Input 1)**

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

- **0-5V Analog Input w/+5V Excitation Source**

Voltage Accuracy: ±4%  
 Maximum current: 25 mA  
 Settling time before measurement: 64 ms

- **Counter/Totalizer (Digital Input 2)**

High Level Input Level (absolute maximum): 10V  
 High Level Input Level (minimum): 2.4V  
 Low Level Input (maximum): 0.5V  
 Maximum Pulse Rate/Frequency: 2500 Hz  
 Minimum Pulse Width/Contact Closure Time: 200µs  
 Input Impedance (in. voltage <3.3V, contact closure): 20 KΩ  
 Input Impedance (input voltage >3.3V): 3.3 KΩ  
 Count Range: 2<sup>32</sup> counts (Event counter accumulates between server updates, then zeros.)

## 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

