



**I-7016**



**I-7016D**

## I-7016/I-7016D 2-channel Strain Gauge Input Module

### Specifications

#### Analog Input

Input Channels	2
Input Type	+/-15mV, +/-50mV, +/-100mV, +/- 500mV , +/-1V, +/- 2.5V, +/- 20mA
Resolution	16-bit
Sampling Rate	10 Samples/ Second (one-channel mode) 2 Samples/ Second (two-channel mode)
Accuracy	+/-0.05% FSR
Band Width	5.24Hz
Zero Drift	+/-0.5uV/ °C
Span Drift	25ppm/°C
Common Mode Rejection	150dB
Normal Mode Rejection	100dB
Overvoltage Protection	10V (P-P)
Input Impedance	20M Ohms
Intra-module Isolation, Field to Logic	3000 VDC

#### Excitation Voltage Output

Output Channels	1
Output Range	0 to +10V
Max Output Load	40mA
Accuracy	+/-0.05% of FSR
Drift	+/-50ppm/ °C
Output Impedance	12 Ohms
Isolation	3000 VDC

#### Digital Input

Channels	1
Logic Level 0	+ 1V max
Logic Level 1	+ 3.5V to 30V
Max Input Frequency	50Hz
Min. Pulse Width	1 mS

#### Digital Output

Channels	2
Output Type	Sink, Open collector to 30V
Output Load	30mA max per channel
Power dissipation	300 mW

#### Interface

Interface	RS-485
Format	N, 8, 1
Buad Rate	1200 ~ 115200 bps

#### LED Display

1 LED as Power/ Communication indicator  
4 1/2 digits (for I-7016D)

#### Power

Input Voltage Range	+10 to +30Vdc
Power Consumption	2.4W (I-7016) / 3.0W (I-7016D)

#### Environment

Operating temperature	-25 to 75°C
Storage temperature	-40 to 85°C
Humidity	5 to 95%, non-condensing

## Ordering Information

<b>I-7016</b>	Strain Gauge Input Module
<b>I-7016D</b>	Strain Gauge Input Module with LED display
<b>I-7016 CR</b>	Strain Gauge Input Module (RoHS)
<b>I-7016D CR</b>	Strain Gauge Input Module with LED display (RoHS)

## Related Products

<b>Converters</b>	USB, RS-232, Fiber Optical to RS-485 Converters and Repeaters
<b>Power Supply</b>	24V DC power supply
<b>Relay Module</b>	External relay modules for i-7000 DO module
<b>Learning Kit</b>	Starter learning kit
<b>Application Books</b>	Application books designed with our products
<b>Data Logger Software</b>	User friendly data logger software (free)