



**I-87016W**

## I-87016W

### 2-channel Isolated Strain Gauge Input Module

#### Specifications

<b>Analog Input</b>	
Input Channels	2
Input Type	+/- 15mV, +/- 50mV, +/- 100mV +/- 500mV, +/- 1V, +/- 2.5V -20mA ~ +20mA(No External Resistor Required)
Strain Gauge Type	Full Bridge, Half Bridge, Quarter Bridge
Resolution	16-bit
Sampling Rate	10 Samples/ second (Total)
Accuracy	+/- 0.05% of FSR (Voltage), +/- 0.1% of FSR (Current)
-3dB BandWidth	15.7Hz
Zero Drift	+/- 0.5 $\mu$ V/ °C
Span Drift	+/- 25 $\mu$ V/ °C
Common Mode Rejection	150dB
Normal Mode Rejection	100 dB
Input Impedance	Voltage: > 400k Ohms, Current: ~125 Ohms
Over Voltage Protection	30 VDC
Long Distance Strain Gauge Measurement	Yes
Individual Channel Configurable	Yes
Intra-module Isolation, Field to Logic	3000 VDC
<b>Excitation Voltage Output</b>	
Output Channels	1
Output Range	0 ~ +10 VDC
Max. Output Load current	80mA
Accuracy	+/- 0.05% or Better
Drift	+/- 50 ppm/ °C
Intra-module Isolation, Field to Logic	3000 VDC
<b>Digital Output</b>	
Output Channels	2 (Sink)
Output Type	Isolated Open Collector
Load Voltage	+5 VDC ~ +50 VDC
Load Current	700mA/channel max.
Photo-isolation	3750 Vrms
<b>Digital Input</b>	
Input Channels	2 (Sink)
On Voltage Level	+3.5 V ~ 50 V
Off Voltage Level	+1V max
Input Impedance	10K Ohms, 0.66 W
Event Counter	Channels: 2 Max. Input Frequency: 50Hz Min. Pulse Width 10ms
Photo-isolation	3750 Vrms
<b>Watchdog</b>	
Dual Watchdog	Yes, Module(1.6 sec) and Communication(Programable)
Safe Value(When Host Fail or Communication Fail)	Yes
Power ON Preset Value	Yes

**LED Display**

1 LED as Power/Communication Indicator

4 LEDs as Digital Input/Digital Output status Indicators

**Power**

Power Consumption	Typical: 1.1W Maximum: 2.5W
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**Environment**

Operating Temperature	-25 ~ 75 °C
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Storage Temperature	-30~ 75 °C
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Humidity	5 ~ 95% RH, non-condensing
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**Dimensions**

30 mm x 102 mm x 115 mm (W x L x H)

**Ordering information****I-87016W-G**

2-channel Isolated Strain Gauge Input Module (Gray Cover)