



Model:I-7016P



Model:I-7016PD

# I-7016P/ I-7016PD



I-7016P: 1-channel Strain Gauge Input Module

## Specifications

### Analog Input

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

### Excitation Voltage Output

Output Channels	1
Output Range	0 to +10V
Resolution	16-bit
Max OUtput Load	40 mA
Accuracy	+/-0.05% of FSR
Drift	+/-50 ppm/ °C
Output Impedance	12 Ohms
Voltage feedback	Yes
Isolation	3000 Vdc

### Digital Input

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

### Digital Output

Channels	4
Output Type	Sink, Open collector to 30V
Output Load	30 mA max. per channel
Power dissipation	300 mW

### Interface

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

### LED Display

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

**Power**

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

**Environment**

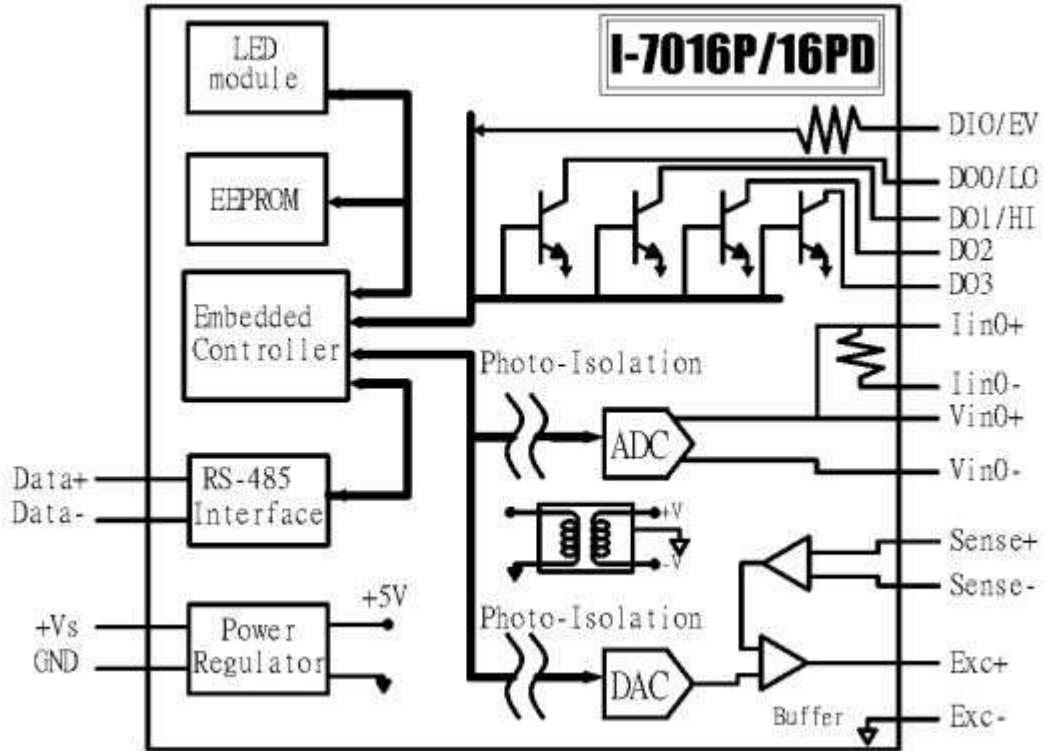
Operating temperature	-25 to 75°C
Storage temperature	-40 to 85°C
Humidity	5 to 95%, non-condensing

**Ordering information**

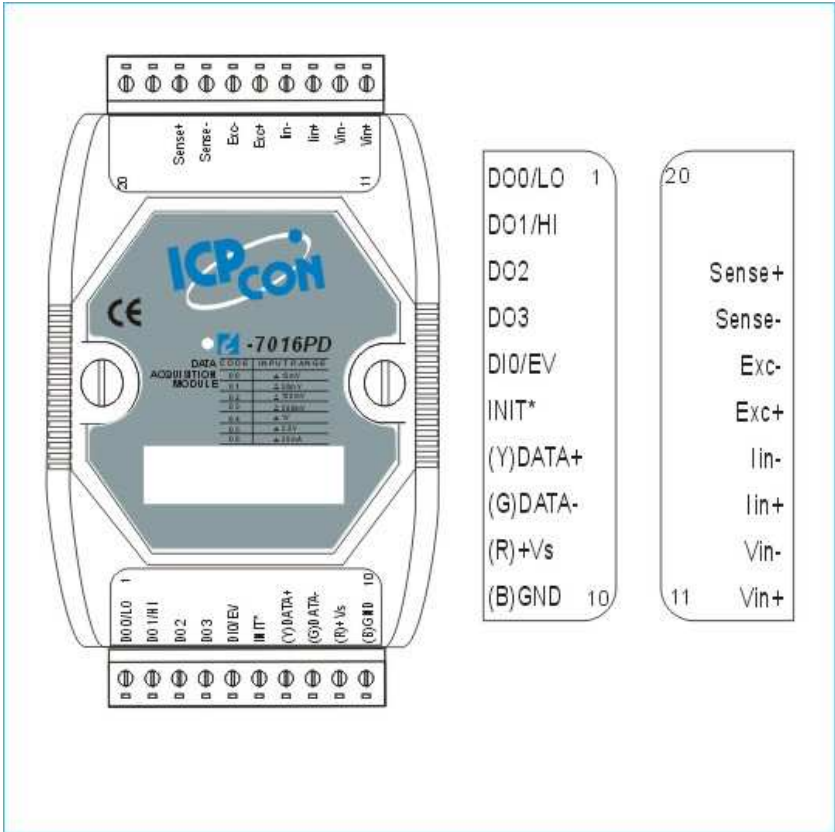
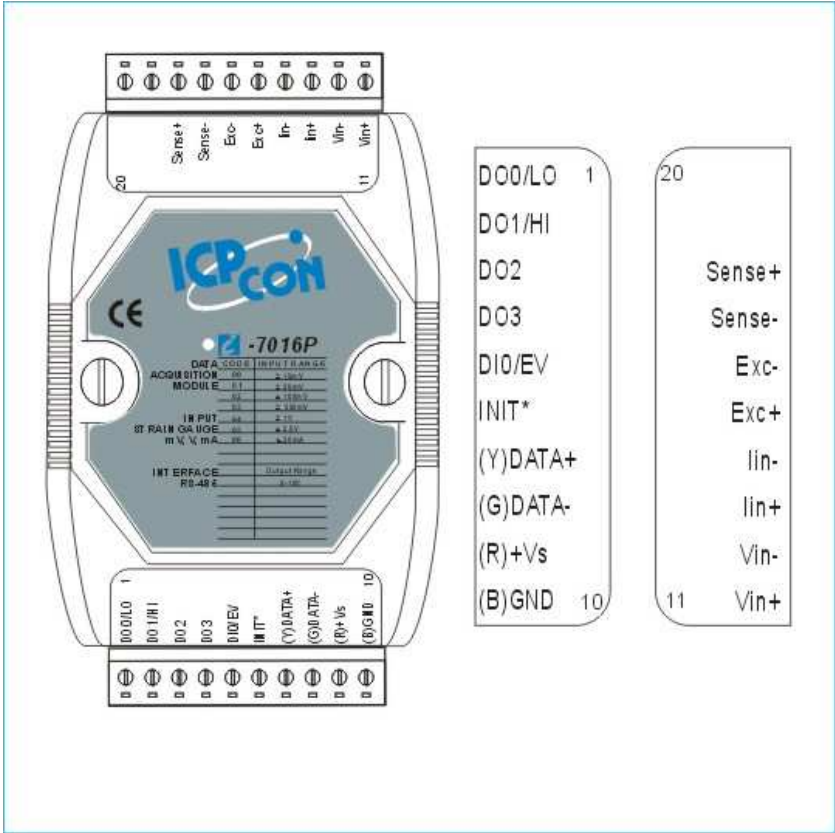
I-7016P	Strain Gauge Input Module (6 wires)
I-7016PD	Strain Gauge Input Module with LED display
I-7016P CR	Strain Gauge Input Module (6 wires) (RoHS)
I-7016PD CR	Strain Gauge Input Module with LED display (RoHS)

# I-7016P/I-7016PD Hardware

## Internal I/O Structure

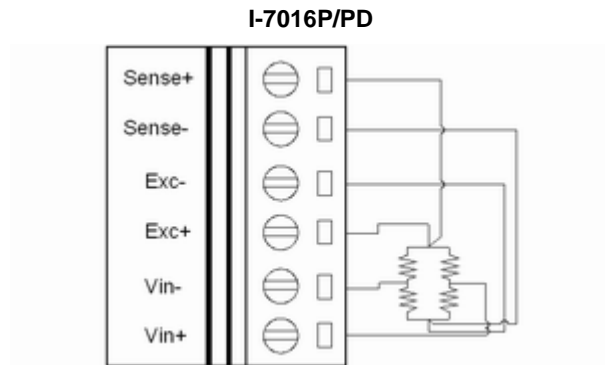
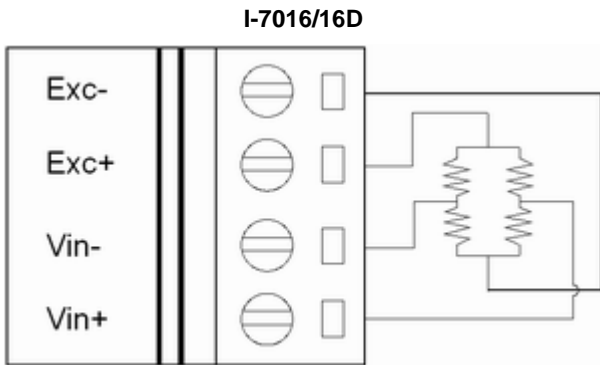


# PIN Assignment

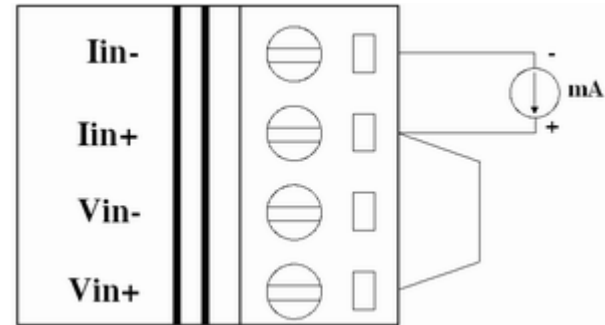
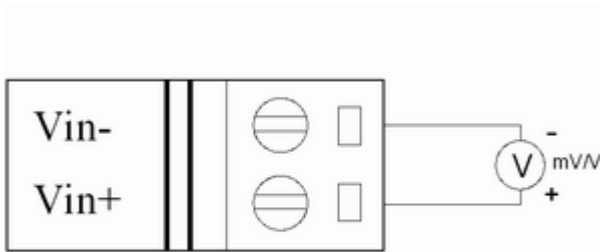


## Wire Connection

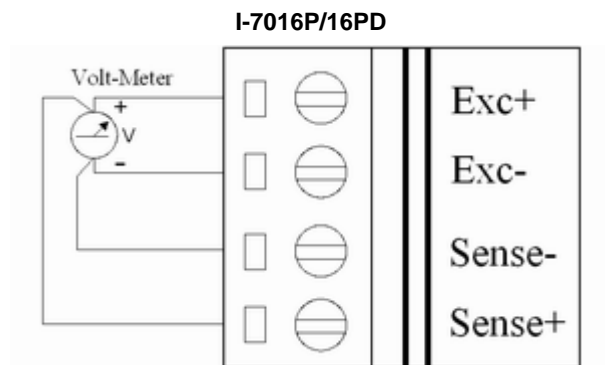
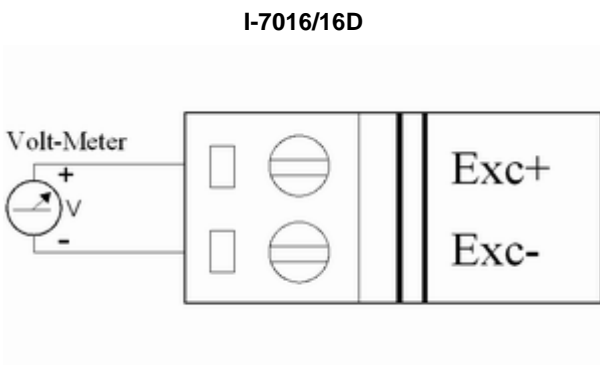
### Bridge Sensor/Load Cell/Strain Gauge Wire Connection



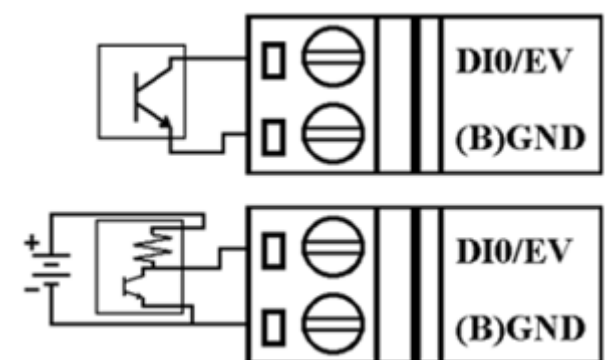
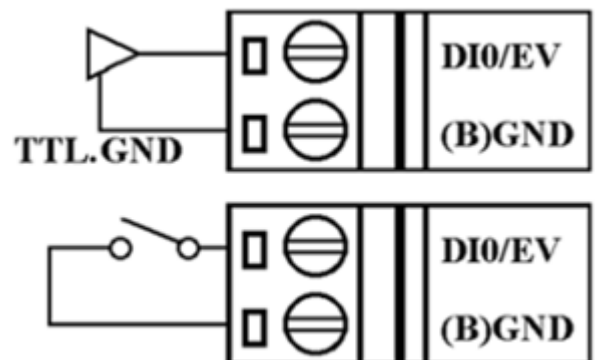
### Analog Input Wire Connection



### Analog Output Wire Connection



### Digital Input Wire Connection



## Digital Output Wire Connection

