



**I-87018**



**I-87018-G**

## I-87018/I-87018-G 8-channel Thermocouple Input Module

### Specifications

<b>Analog Input</b>	
Input Channels	8 Differential
Input Type	+/- 15mV, +/- 50mV, +/- 100mV +/- 500mV, +/- 1V, +/- 2.5V -20mA ~ +20mA(Requires Optional External 125 Ohm Resistor) Thermocouple(J, K, T, E, R, S, B, N, C, L, M, LDIN43710)
Resolution	16-bit
Sampling Rate	10 Samples/ sec (Total)
Accuracy	+/- 0.1% of FSR
-3dB BandWidth	15.7Hz
Zero Drift	+/- 0.5µV °C
Span Drift	+/- 25 µV/ °C
Common Mode Rejection	150 dB
Normal Mode Rejection	100 dB
Input Impedance	20M Ohms
Open Thermocouple Detection	No
Overvoltage Protection	-35V to +35V
Intra-module Isolation, Field to Logic	3000VDC
<b>LED Display</b>	
1 LED as Power/ Communication Indicator	
16LEDs as High/ Low Alarm Signals	
<b>Power</b>	
Power Consumption	Maximum: 1.1W
<b>Environment</b>	
Operating Temperature	-25 to 75 °C
Storage Temperature	-30 to 75 °C
Humidity	5 to 95%, Non-condensing
<b>Dimensions</b>	
31 x 67 x 114 (W x D x H)	
<b>Note</b> : We recommend to choose <a href="#">I-87018Z</a> for accurate thermocouple measurement.	

### RTD Temperature Range

Type	Range°C
J	-210~ +760
K	-270~+1372
T	-270~+400
E	-270~+1000
R	0~+1768
S	0~+1768
B	0~+1820
N	-270~1300
C	0~2320
L	-200~+800
M	-200~+100
L2(DIN43710)	-200~+900

## Ordering information

<b>I-87018</b>	8-channel Thermocouple Input Module (Blue Cover)
<b>I-87018-G</b>	8-channel Thermocouple Input Module (Gray Cover)
<b>I-87018 CR</b>	8-channel Thermocouple Input Module (Blue Cover) (RoHS)
<b>I-87018-G CR</b>	8-channel Thermocouple Input Module (Gray Cover) (RoHS)