



Model: M-7011



Model: M-7011D

M-7011/M-7011D

**One -channel Thermocouple
Input Module**

Specifications

Analog Input	
Input Channels	1
Input Type	+/-15mV, +/-50mV, +/-100mV,+/- 500mV , +/-1V,+/- 2.5V +/- 20mA (requires optional external 125 ohm resistor) Thermocouple(Type J, K, T, E, R, S, B, N, C)
Resolution	16-bit
Sampling Rate	10 Samples/ Second
Accuracy	+/-0.05%
Zero Drift	+/-0.5uV/°C
Span Drift	25ppm/°C
Band Width	5.24Hz
Common Mode Rejection	150dB
Normal Mode Rejection	100dB
Input Impedance	20M Ohms
Intra-module Isolation, Field to Logic	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
Baudrate	1200 ~ 115200 bps
LED Display	
1 LED as Power/ Communication indicator	
4 1/2 digits (for i-7011D)	
Power	
Input	+10 to +30 Vdc
Power Consumption	0.9 W (i-7011) / 1.5W(i-7011D)
Protocol	
Support Modbus and DCON	Yes

Protocol	
Environment	
Operating temperature	-25°C to 75 °C
Storage temperature	-30°C to 75 °C
Humidity	5 to 95%, non-condensing

Thermocouple type: (C)

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

Ordering Information

M-7011 CR	One-channel Thermocouple Input Module (RoHS)
M-7011D CR	One-channel Thermocouple Input Module with LED Display (RoHS)

Related Products

Converters	USB, RS-232, Fiber Optical to RS-485 Converters and Repeaters
Power Supply	24V DC power supply
Relay Module	External relay modules for i-7000 DO module
Learning Kit	Learning kit
Application Books	Application books designed with our products
Data Logger Software	User friendly data logger software (free)
125Ohms, 0.1% DIP Resistors	use for current type of i-7011/i-7012/i-7017/i-7018 series