



M-7018Z



DB-1820

M-7018Z
10-channel Thermocouple Input Module with High Voltage Protection

Specifications

Analog Input

Input Channels	10 Differential +/-15mV, +/-50mV, +/-100mV, +/-500mV, +/-1V, +/-2.5V
Input Type	+/-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/ Second (Total)
Accuracy	+/-0.1%
Band Width	15.7 Hz
Zero Drift	+/-0.5uV/°C
Span Drift	+/-25ppm/°C
Input Impedance	20M Ohms
Common Mode Rejection	150dB
Normal Mode Rejection	100dB
Over Voltage Protection	240Vrms
Open Thermocouple Detection	Yes
Individual Channel Configuration	Yes
Photo-Isolation	3750 Vrms
Intra-module Isolation, Field to Logic	3000 VDC

Interface

Interface	RS-485
Format	N, 8, 1
Baud Rate	1200 ~ 115200bps
Protocols	Modbus RTU and DCON

DB-1820

Wire strip length	4~5mm
Wire Range	16~24 AWG

LED Display

1 LED as Power/ Communication indicator

Power

Input	+10 to +30 Vdc
Power Consumption	1.0W

Environment

Operating temperature	-25 to 75°C
Storage temperature	-40 to 85°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
L	-200 ~ +800
M	-200 ~ +100
L2(DIN43710)	-200 ~ +900



M-7018Z connects DB-1820 directly



M-7018Z connect DB-1820 with CD-2518D kit



M-7018Z connect DB-1820 with CD-25015 kit

Ordering Information

M-7018Z-G/S CR

10-channel Thermocouple Input Module with High Voltage Protection (RoHS)
include M-7018Z module and DB-1820 daughter board

Suggested accessory

CD-2518D

25F-25M 1.8m cable with DIN-Rail Mount of DB-1820

CD-25015

25F-25M 15cm cable with DIN-Rail Mount of DB-1820