



M3808

8 analog inputs

Thermocouple K, J, T, B, etc.

16 bit resolution

Hotswap

18pt removable terminal block (RTB18C)

Facts

General description

Article number	100-8236
Warranty	Up to 2 years
Article status	Active
Shock operating	IEC 60068-2-27 (15G)
Vibration resistance	Sine vibration (based on IEC 60068-2-6), DNVGL-CG-0339 (Vibration Class B, 4G)
Industrial emissions	EN 61000-6-4/2019
Industrial immunity	EN 61000-6-2 : 2019
Installation position	Horizontal, Vertical
Power dissipation	Max. 150 mA @ 5.0 VDC
Isolation	I/O to Logic : DC-DC Isolation, Field power : Not Connected
Field power	Not used Field power bypass to next expansion module
Weight	72g
Module size	12 x 110 x 75 mm

Certifications

General	CE, FCC, UL, cUL
Hazardous	UL C1D2, ATEX (Zone2)
Marine	DNV GL
Safety	UL508, CAN/CSA C22.2 No.142-M1987

Environmental

Mounting	35mm DIN rail
Operating temperature	-25 ~ 60°C
Storage temperature	-40 ~ 85°C
UL temperature	-25 ~ 60°C
Relative humidity	5 ~ 90% non-condensing

Analog input module specifications

Calibration	Not required
Connection types	2-Wire
Conversion time	Average Conversion time < 330 ms
Data format	16 bits Integer (2' compliment)
Indicators	8 Green Input status , 1 Green Input CJ status
Inputs per module	8 Channels
Module error	Recommend Input Range: $\pm 0.1\%$, Recommended Scale @ 25°C ambient, $\pm 0.3\%$, Recommended Scale @ -40°C~70°C, T,B,R,S,C,D type Recommend Input Range: $\pm 0.3\%$, Recommended Scale @ -40°C~70°C, External Cold Junction(PT100): $\pm 2^\circ\text{C}$ Recommended Scale @ -40°C~70°C
Sensor types	K / J / T / B / R / S / E / N / L / U / C / D, Thermocouple input range, Typical max. input range / Recommended input Range: K: -270 ~ 1372 / -200 ~ 1200°C, J: -210 ~ 1200 / -40 ~ 1100°C, T: -270 ~ 400 / -200 ~ 350°C, B: 30 ~ 1820 / 600 ~ 1700°C, R: -50 ~ 1768 / 0 ~ 1600°C, S: -50 ~ 1768 / 0 ~ 1600°C, E: -270 ~ 1000 / -200 ~ 800°C, N: -270 ~ 1300 / -200 ~ 1250°C, L: -200 ~ 900 / -100 ~ 850°C, U: -200 ~ 600 / -100 ~ 550°C, C: 0 ~ 2310 / 100 ~ 2100°C, D: 0 ~ 2490 / 100 ~ 2200°C, 10uV Input -81.0 ~ 81.0mV, 10uV/1 Count, 1uV Input -32.7 ~ 32.7mV, 1uV/1 Count, 2uV Input -65.5 ~ 65.5mV, 2uV/1 Count

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