



M3744

4 analog inputs

RTD / Resistance input

PT100 / PT1000 / Ni1000LG / etc,

Data Format: 16 bit resolution

Hotswap

18pt removable terminal block (RTB18C)

Facts

General description

Article number	100-8291
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. 120 mA @ 5 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	4-Wire
Conversion time	< 280 ms, All Channel
Data format	16 bits Integer (2' compliment)
Diagnostic	Sensor open or range over, then conversion data = 0x8000(-32768)
Indicators	4 Green Input status
Inputs per module	4 Channels
Module accuracy	PT50, JPT50, NI100, NI120 : ±0.3% Full Scale @ 25°C ambient PT50, JPT50, NI100, NI120 : ±0.5% Full Scale @ -40,70°C ambient PT1000 : ±0.3°C at 50~150°C @ 25°C ambient, PT1000 : ±0.5°C at 50~150°C @ -25,60°C ambient, PT1000 : ±0.5°C at -200~250°C @ 25°C ambient, Cu10 : ±2% Full Scale @ 25°C ambient, Cu10 : ±4% Full Scale @ -25,60°C ambient, Cu100 : ±0.3% Full Scale @ 25°C ambient
Module error	All type Input Range: ±0.1% Full Scale @ 25°C ambient, ±0.3% Full Scale @ -25°C~60°C
Resolution in ranges	RTD Type : ±0.1°C / F , Resistance Type : 100 mΩ, 10 mΩ, 20 mΩ, 50 mΩ
Sensor types	RTD Input: PT100, PT200, PT500, PT50: -200~850°C, PT1000: -200~350°C, JPT100, JPT200, JPT500, JPT50: -200~640°C, JPT1000: -200~350°C, NI100, NI200, NI500: -60~250°C, NI1000: -60~180°C, NI120: -80~260°C, NI1000LG: -50~120°C, , Resistance Input: 100 mΩ/bit: 0~2000Ω, 10 mΩ/bit: 0~327Ω, 20 mΩ/bit: 0~620Ω, 50 mΩ/bit: 0~1200Ω

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