



GT-3944

4 analog inputs

0~5 / -5~5 / 0~10 / -10~10 V

16 bit resolution

Differential (non-isolated between channels)

10pt removable terminal block

Facts

General description

Article number	100-8151
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), 5 ~ 25 Hz: $\pm 1.6\text{mm}$, 25 ~ 300 Hz: 4G, Sweep rate: 1 octave/min., 20 cycles, Random vibration (based on IEC 60068-2-64), 10 ~ 40 Hz: $0.0125\text{g}^2/\text{Hz}$, 40 ~ 100 Hz: $0.0125 \rightarrow 0.002\text{g}^2/\text{Hz}$, 100 ~ 500 Hz: $0.002 \text{g}^2/\text{Hz}$, 500 ~ 2000 Hz: $0.002 \rightarrow 1.3 \times 10^{-4}\text{g}^2/\text{Hz}$, Test time: 1hrs for each test
Industrial emissions	EN 61000-6-4/A11: 2011
Industrial immunity	EN 61000-6-2: 2019
Product certifications	Horisontal, Vertical CE, UL, cUL, FCC, RoHS, China RoHS, Reach
Power dissipation	Max. 30 mA @ 5 VDC
Isolation	I/O to Logic: Photocoupler isolation, I/O to Field Power: Non-Isolation
Field power	Nominal supply voltage: 24 VDC, Voltage range: 60°C: 18~32 VDC, 70°C: 18~26.4 VDC
Weight	60 g
Module size	12x99x70 mm

Environmental

Mounting	35mm DIN rail
Operating temperature	-20 ~ 60°C
Storage temperature	-40 ~ 85°C
UL temperature	-20 ~ 60°C
Relative humidity	5 ~ 90% non-condensing

Analog input module specifications

Calibration	Not Required
Conversion time	≤ 1 ms, all channels
Data format	16 bit integer (2's complement)
Indicators	4 green input status
Input impedance	667 k Ω
Inputs per module	4 channels
Module accuracy	$\pm 0.1\%$ Full Scale @ 25°C, $\pm 0.3\%$ Full Scale @ -40°C, 70°C
Resolution in ranges	12 bit: 2.44mV/Bit(0~10V), 12 bit: 1.22mV/Bit(0~5V), 12 bit: 4.88mV/Bit(-10~10V), 12 bit: 2.44mV/Bit(-5~5V)

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