



GT-3C78

8 analog in, 8 analog out

Input / Output Voltage

12 bit resolution

Input: 0-10, 0-5, 1-5 VDC

Output: 0-10 VDC

8 channels single ended, non-isolated between channel

18pt removable terminal block

Facts

General description

Article number	100-8314
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, 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	64 g
Module size	12x109x70 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

Common type	2 common, field power 0 V is common (AGND)
Conversion time	1.5 ms / All channels
Data format	16 bit integer (2's complement)
Inputs per module	8 channels
Module accuracy	$\pm 0.1\%$ full scale @ 25 °C ambient, $\pm 0.3\%$ full scale @ -40 °C, 60 °C
Resolution in ranges	12 bits: 2.44 mV/Bit (0 - 10 V), 12 bits: 1.22 mV/Bit (0 - 5 V), 12 bits: 0.977 mV/Bit (1 - 5 V)

Analog output module specifications

Data format	16 bit integer (2's complement)
Load resistance	Min. 2 k Ω
Module error	± 0.1 % full scale @ 25 °C, ± 0.3 % full scale @ -40 °C, 60 °C
Output format	0 - 10 V
Outputs per module	8 channels
Resolution in ranges	12 bit: 2.44 mV/bit

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