



GT-311F

16 analog inputs

0~20 / 4~20 mA

12 bit resolution

20-pin connector (cable not included)

Con20-Open-Cab 5m can be used in combination (part.no. 313296)

Facts

General description

Article number	100-8037
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
Common type	4 Common, Field Power 0 V is Common(AGND)
Conversion time	$\leq 3.2 \text{ ms}$, all channels
Data format	16 bit integer (2's complement)
Diagnostic	Diagnostic: Field Power Off: LED Blinking
Indicators	1 green G-bus status
Input current range	0~20 mA, 4~20 mA
Input impedance	121.5 Ω
Inputs per module	16 channels single ended, non-isolated between channels
Module accuracy	$\pm 0.1\%$ Full Scale @ 25°C ambient, $\pm 0.3\%$ Full Scale @ -40°C~70°C
Module error	$\pm 0.1\%$ Full Scale @ 25°C ambient $\pm 0.3\%$ Full Scale @ -40°C~70°C
Resolution in ranges	12 bit: 4.88 uA/bit (0 ~ 20 mA), 3.91 uA/bit (4 ~ 20 mA)

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