



## 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: $0.002 \rightarrow 1.3 \times 10\text{-}4\text{g}^2/\text{Hz}$ , Test time: 1hrs for each test
Industrial emissions	EN 61000-6-4/A11: 2011
Industrial immunity	EN 61000-6-2: 2019
Installation position	Horisontal, Vertical
Product certifications	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	$121.5\ \Omega$
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 $\mu\text{A}/\text{bit}$ (0 ~ 20 mA), 3.91 $\mu\text{A}/\text{bit}$ (4 ~ 20 mA)

## **People & Technology. Connected.**

We are a people company. Our experienced, skilled and passionate people empower you to meet your challenges through best-in-class, user-friendly solutions. We are a technology company. We help you optimize processes through our software, hardware and services, and through our support. Connecting people and technologies gives you the means to accomplish your goals and ambitions, and gain a competitive edge in today's digitalized world.

Visiting address HQ: Stora Varvsgatan 13a

SE - 211 75 Malmoe, SWEDEN

[+46 40 35 86 00 \(tel:+46 40 35 86 00\)](tel:+4640358600)

[info@beijerelectronics.com \(mailto:info@beijerelectronics.com\)](mailto:info@beijerelectronics.com)