



GT-319F

16 analog inputs

0~20 / 4~20 mA

16 bit resolution

18pt removable terminal block

Facts

General description

Article number	100-8143
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	Horizontal, Vertical CE, UL, cUL, FCC, RoHS, China RoHS, Reach
Power dissipation	Max. 215 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	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

Calibration	Not required
Common type	2 COM, field power 0V (AGND)
Conversion time	≤ 1 ms, all channels
Data format	16 bit integer (2's complement)
Diagnostic	Diagnostic, Field power OFF: all LEDs blinking, Field power ON: LED OFF < 0.5% (max. input value), Field power ON: LED ON > 0.5% (max. input value), Upper range: LED OFF > 21 mA, Lower range: LED OFF < 3 mA (4 ~ 20 mA)
Indicators	1 green G-bus status
Input current range	0 ~ 20 / 4 ~ 20 mA
Input impedance	121.5 Ω
Inputs per module	16 channels single ended, non-isolated between channels
Module accuracy	±0.1% full scale @ 25°C ambient, ±0.3% full scale @ -40°C, 70°C
Resolution in ranges	16 bit: 0.61 uA/bit (0 ~ 20 mA), 0.49 uA/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.

Beijer Electronics, Inc.
850 South 3600 West, Suite C
Salt Lake City, UT 84104
USA

Sales: +1 801-708-6631 Support: +1 801-708-6690 (tel:Sales: +1 801-708-6631 Support: +1 801-708-6690)
sales.americas@beijerelectronics.com (mailto:sales.americas@beijerelectronics.com)