



## GT-3948

8 analog inputs

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

16 bit resolution

Differential (non-isolated between channels)

18pt removable terminal block

## Facts

### General description

|                        |   |
|------------------------|---|
| Article number         | 100-8153  |
| 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<br>CE, UL, cUL, FCC, RoHS, China RoHS, Reach   |
| Power dissipation      | Max. 200 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                 | 65 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  |
| Conversion time   | $\leq 2$ ms, all channels   |
| Data format       | 16 bit integer (2's complement)                                     |
| Indicators        | 1 green input status  |
| Input impedance   | 667 k $\Omega$  |
| Inputs per module | 8 channels  |
| Module accuracy   | $\pm 0.1\%$ Full Scale @ 25°C, $\pm 0.3\%$ Full Scale @ -40°C, 70°C |

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