



## GT-3804

4 analog TC input

Thermocouple module

K, J, T, B, etc.

12 bit resolution

10pt removable terminal block

## Facts

### General description

Article number	100-8044
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. 150 mA @ 5 VDC
Isolation	I/O to Logic: Photocoupler isolation, I/O to Field Power: Non-Isolation
Field power	Not used. Field power bypassed to next expansion module.
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
Cold junction compensation	Internal, - TMP275 AIDGKR: -40°C~125°C, External, - PT100: -45°C~95°C
Connection types	2-Wire
Conversion time	≤ 30 ms, all channels
Data format	16 bit integer (2's complement)
Indicators	4 green input status, 1 green input cold junction status
Inputs per module	4 channels
Module accuracy	Recommended input range: ±0.1% recommended scale @ 25°C ambient, ±0.3% recommended scale @ -40°C~70°C, C/D type recommend input range: ±0.3% recommended scale @ -40°C~70°C, External cold junction (PT100): ±2°C recommended scale @ -40°C~70°C
Sensor types	K / J / T / B / R / S / E / N / L / U / C / D, Thermocouple input range, Typical max. input range / Recommended input Range: K: -270 ~ 1372 / -200 ~ 1200°C, J: -210 ~ 1200 / -40 ~ 1100°C, T: -270 ~ 400 / -200 ~ 350°C, B: 30 ~ 1820 / 600 ~ 1700°C, R: -50 ~ 1768 / 0 ~ 1600°C, S: -50 ~ 1768 / 0 ~ 1600°C, E: -270 ~ 1000 / -200 ~ 800°C, N: -270 ~ 1300 / -200 ~ 1250°C, L: -200 ~ 900 / -100 ~ 850°C, U: -200 ~ 600 / -100 ~ 550°C, C: 0 ~ 2310 / 100 ~ 2100°C, D: 0 ~ 2490 / 100 ~ 2200°C, 10uV Input -81.0 ~ 81.0mV, 10uV/1 Count, 1uV Input -32.7 ~ 32.7mV, 1uV/1 Count, 2uV Input -65.5 ~ 65.5mV, 2uV/1 Count

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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) (mailto:sales.americas@beijerelectronics.com)