Overview

Product information



DF58-M-4TC-30050002746

Thermocouple (TC) measurement module, 16 bit resolution, 4 channels

Product advantages

☑ This module adopts 4-channel thermocouple measurement and supports K/E/T/J/B/S/R/N/L models.
☑ Supports four way sensors.
☑ Supports 2/3/4 wire sensors.
☑ This module reserves four cold end compensation output channels to compensate for temperature differences at the cold end.
☑ Two LED indicators indicate that the module is operating normally and communication is normal.
☑ Each channel is equipped with LED indicator lights.
☑ Magnetic isolation between the on-site layer and the system layer.
☑ Transmitted in 16 resolution format.
☑ Protection level IP20.

Product certification

Technical data

Product drawing

3D model

Technical Information

System feed current	<100mA
Process alarm	Upper/lower limit of each channel
Reverse circuit protection	Yes
Error diagnosis	Yes
Working voltage	24V DC+20%/-15%
Internal resistance	>500K Ω
Frequency interference suppression	10Hz | 50Hz | 60Hz | 400Hz

Line type	2/3/4 wire system
Diagnosis	Broken line/parameter assignment error
Number of channels	4
Data size	8 Byte
Resolving power	16bit, 0.1 ℃/per digit
Conversion time	36... 240ms, adjustable
Isolation method	Magnetic isolation between each channel and the on-site layer, and isolation between channels
Accuracy	Max. 0.2% FSR/0.3% FSR for Ni sensors/0.6% FSR for Cu10
	0.20%/± 50ppm/K max
Temperature coefficient	≤ 50ppm/K

Environmental requirements

Protection type	IP20
working temperature	-25... 60 ℃
Storage temperature	-40... 85 ℃
relative humidity	5... 95% RH (condensation)

Wiring parameters

The maximum crimping area of the wire	1.5mm²
	0.14mm²
Maximum crimping area of wire (AWG)	AWG16
Connection technology: input/output	PUSH-IN type terminal blocks
Strip length	8-10mm
Installation method	DIN-35 type guide rail

Electrical parameters

Input signal type	“B、E、J、K、N、R、S、T_x005f_x005f_0001_型B、E、J、K、N、R、S、T型

Accessories

Business data

Order number	30050002746
Packing unit	1
Minimum order quantity	1
Products weight (without packaging)	60g