

Overview

Product information



DF50-M-8TC-30050002754

Thermocouple (TC) measurement module, 16 bit resolution, 8 channels

Product advantages

- This module adopts 8-channel thermocouple measurement and supports K/E/T/J/B/S/R/NL models.
- Supports eight way sensors.
- Supports 2-wire sensors.
- This module reserves eight 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

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Technical Information

System feed current	<120mA
Process alarm	Upper/lower limit of each channel
Reverse circuit protection	Yes
Error diagnosis	Yes
Working voltage	24V DC+20%/-15%
Cold end compensation	Internal and external (internal accuracy ≤ 3K)
Module diagnosis	Yes

Frequency interference suppression	10Hz 50Hz 60Hz 400Hz
Sensor type	Thermocouple
Temperature error	± 0.5%
Measuring range	-270 °C~1370 °C
Diagnosis	Broken line/parameter assignment error
Number of channels	8
Data size	16 Byte
Resolving power	16bit, 0.1 °C/per digit
Signal type	E, J, T, K, B, S, R, N, L
Conversion time	125ms
Isolation method	Magnetic isolation from the on-site layer
Accuracy	± 0.3%

Environmental requirements

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

Wiring parameters

The maximum crimping area of the wire	1.5mm ²
	0.14mm ²
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

Accessories

Business data

Order number	30050002754
Packing unit	1
Minimum order quantity	1
Products weight (without packaging)	60g