## 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/N/L 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

### 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 ℃~1370 ℃ |
| Diagnosis | Broken line/parameter assignment error |
| Number of channels | 8 |
| Data size | 16 Byte |
| Resolving power | 16bit, 0.1 ℃/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

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

Wiring parameters

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|---|---|
| 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 |

## Accessories

## Business data

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