Overview

Product information



DF50-M-4RTD-PT-30050002555

Thermal resistance (RTD) measurement module, 16 bit resolution, 4 channels

Product advantages

☑ This module adopts 4-channel thermal resistance measurement and supports 13 types of conventional thermal resistors.
☑ Supports four way sensors.
☑ Supports 2-wire, 3-wire, and 4-wire sensors.
☑ 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%
Frequency interference suppression	50Hz | 60Hz | 400Hz
Sensor type	Thermocouple
Temperature error	± 50ppm/K_ X005f max

Line type	2/3/4 wire system
Measuring range	Thermal resistance
Diagnosis	Broken line/parameter assignment error
Number of channels	4
Data size	8 Byte
Resolving power	16bit, 0.1 ℃/per digit
Signal type	Pt100, Pt200, Pt500, Pt1000, Ni100, Ni120, Ni 200, Ni500, Ni1000, Cu10, 40 Ω, 80 Ω, 150 Ω, 300 Ω, 500 Ω, 1 k Ω, 2 k Ω, 4 k Ω
Conversion time	100-800ms, configurable
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

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

Accessories

Business data

Order number	30050002555
Packing unit	1
Minimum order quantity	1
Products weight (without packaging)	60g