Technical Information	
Model	DF58-M-4RTD-PT
Product Description	Thermal resistance (RTD) measurement module, 16 bit resolution, 4 channels
Measuring range	Thermal resistance
Number of channels	4
Signal type	Pt100, Pt200, Pt500, Pt1000, Ni100, Ni120, Ni 200, Ni500, Ni1000, Cu10,40 Ω, 80 Ω, 150 Ω,300 Ω, 500 Ω,1kΩ, 2kΩ, 4kΩ
Temperature range	depending on the sensor type 0,1mA (Pt100, Ni100, Ni120, Cu10, 40 Ω, 80 Ω, 150 Ω, 300 Ω)or 0,1mA (Pt200, Pt500, Pt1000, Ni200, Ni500, Ni1000, 500 Ω,1k Ω, 2kΩ, 4kΩ)
Accuracy	max. 0.2 % FSR / 0.3 % FSR for Ni sensors / 0.6 % FSR for Cu10
Sensor current	depending on the sensor type 0,1mA (Pt100, Ni100, Ni120, Cu10, 40 Ω, 80 Ω, 150 Ω, 300 Ω) or 0,1mA (Pt200, Pt500, Pt1000, Ni200, Ni500, Ni1000, 500 Ω, 1kΩ, 2kΩ, 4kΩ)
Line type	2/3/4 wire system
Temperature coefficient	±50 ppm/K max.
Conversion time	133---800ms , configurable
Common mode input voltage range	Line to line: max ± 2 V Line power supply: max ± 50 V
Reverse polarity protection	support
Module diagnosis	support
Single channel diagnosis	support
Isolation method	Magnetic isolation between each channel and the on-site layer, and isolation between channels
data size	8 Byte
Internal resistance	>500K Ω
resolving power	16bit, 0.1 ˚C/per digit
Frequency interference suppression	10Hz | 50Hz | 60Hz | 400Hz
diagnosis	Broken line/parameter assignment error
Process alarm	Upper/lower limit of each channel
Conversion time	100ms/4 channels
Power parameters	
working voltage	24V DC +20 %/ -15 %
System feed current	<15mA
Wiring parameters	
Connection technology: input/output	PUSH-IN type terminal blocks
Connection type (1)	Input/Output
Crimping area of wire	0.2~1.5mm2/26~16AWG
Strip length	8-10mm ²
Installation method	DIN-35 type guide rail
Material parameters	
colour	Light gray
Shell material	PC plastic, PA66
Consistency flag	CE
Environmental requirements	

Permissible ambient temperature (during operation)	-25-60 ℃
Permissible ambient temperature (storage)	-40-85 ℃
Protection type	IP20
Pollution level	2. Comply with IEC 61131-2 standard
Working altitude	Temperature without derating: 0-2000m
Installation position	arbitrarily
Relative humidity (non condensing)	5-95% RH
Anti vibration	4g, in accordance with IEC 60068-2-6 standard
Impact resistance	15g, in accordance with IEC 60068-2-27 standard
EMC - Immunity	Complies with EN 61000-6-2 standard
EMC - Radiated interference	Complies with EN 61000-6-3 standard
Corrosion resistance	Complies with IEC 60068-2-42 and IEC 60068-2-43 standards
Permissible H2S pollutant concentration at 75% relative humidity	10ppm
Permissible SO2 pollutant concentration at 75% relative humidity	25ppm