

Technical Information	
Product Description	Thermocouple measurement module, 16 bit resolution, 8 channels
Number of channels	8
Signal type	E, J, T, K, B, S, R, N, L
Sensor type	thermocouple
Cold end compensation	Internal and external (internal accuracy $\leq 3K$ )
temperature coefficient	$\leq 50\text{ppm/K}$
Module diagnosis	yes
Enter Connection Type	2-wire system
resolving power	16 Bit, 0.1 °C/per digit
accuracy	$\pm 0.3\%$
data size	16 Byte
Temperature erro	$\pm 0.5\%$
measuring range	-270 °C~1370 °C
Supply voltage (system)	5VDC; Through data contacts
Power consumption	<100mA
working voltage	24VDC (-15%~+20%) across contact points through power supply
quarantine	500V system/on-site magnetic isolation
Frequency interference suppression	10Hz   50Hz   60Hz   400Hz
Conversion time	125ms
Error diagnosis, reverse circuit protection	Yes
diagnosis	Broken line/parameter assignment error
Process alarm	Upper/lower limit of each channel
Wiring parameters	
Connection technology: input end	PUSH-IN type wiring port
line type	Input
Crimping area of wire	0.14~1.5mm <sup>2</sup> /26~16AWG
Strip length	8~10mm
Installation method	DIN-35 type guide rail
Material parameters	
Colour	Black
Housing material	PC plastic, PA66
Consistency flag	CE
Environmental requirements	
Permissible ambient temperature (during operation)	-25~60°C
Permissible ambient temperature(storage)	-40~85°C
Protection type	IP20
Pollution leve	2. Comply with IEC 61131-2 standard
Working altitude	Without temperature influence:0~2000m
Relative humidity (non condensing)	5~95%RH
Anti vibration	4g, Complies with IEC 60068-2-6 standard
Impact resistance	15g, Complies 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