

1. Specification

Technical data	
Number of channels	8
Signal type	Thermocouple
Signal type	E(-270~1000°C), J(-210~1200°C), T(-270~400°C), K(-270~1370°C), B(50~1820°C), S(-50~1760°C), R(-50~1770°C), N(0~2320°C), L(-200~900°C)
Cold End compensation	Internal and external (accuracy ≤3K)
Temperature coefficient	≤50ppm/K
Diagnosis	Yes
Connection type	2-line
Resolution [bit]	16 Bit, 0.1°C/each number
Precision	±0.3%
Data size	16 Byte
Temperature coefficient	±0.5%
Measuring range	-270°C~1370°C
Supply voltage (system)	5VDC; via data contacts
Current consumption	<100mA
Working voltage	24VDC (-15%~+20%) via power jumper contacts
Isolation	500Vsystem/field Magnetic isolation
Frequency interference suppression	10Hz 50Hz 60Hz 400Hz
Conversion time	125ms
Fault diagnosis, Reverse protection	Yes
Diagnosis	Disconnection, Parameter assignment error
Process alarm	Upper/Lower limit, per channel
Indicators	10x LED Green
Number of incoming power jumper contacts	2
Number of outgoing power jumper contacts	2
Connection data	
Connection technology: inputs / outputs	16 x via pluggable connector
Connection type 1	Inputs/Outputs
Area of wire	0.2~1.5mm ² /28~16AWG
Strip length	8~9mm/0.31~0.35inches
Mounting type	DIN-35 RAIL
Material Data	
Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Conformity marking	CE
Environmental requirements	
Ambient temperature (operation)	-25~60°C
Surrounding air temperature (storage)	-40~85°C
Protection type	IP20
Pollution degree (5)	2, Per IEC 61131-2
Operating altitude	without temperature derating: 0~2000m
Mounting position	Any
Relative humidity (without condensation)	5~95%RH
Vibration resistance	4g, Per IEC 60068-2-6
Shock resistance	15g, Per IEC 60068-2-27
EMC immunity to interference	Per EN 61000-6-2
EMC emission of interference	Per EN 61000-6-3
Exposure to pollutants	Per IEC 60068-2-42 and IEC 60068-2-43
Permissible pollutant concentration H ₂ S at a relative humidity < 75%	10ppm
Permissible pollutant concentration SO ₂ at a relative humidity < 75%	25ppm