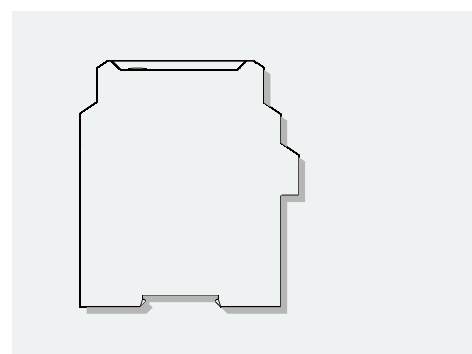


Temperature input isolated barrier, it converts the thermocouple signals from a hazardous area into 4~20mA signals to a safe area by isolation. It has external cold junction compensation terminals. It needs an independent power supply. The input, output, and power supply are galvanically isolated from each other. The self-test function is also available on this device. Calibrate the apparatus or modify parameters by using a handheld programmer.

Parameters

Power supply:	18V DC ~ 60V DC (Reverse power protection)
Power dissipation:	0.8W (single output) 1.2W (double outputs)
Input signal:	TC
Output signal:	4 ~ 20mA (sink/source)
Load resistance:	source: $R_L \leq 550\Omega$ sink: $R_L < [(U-3)/0.02]\Omega$; U: Loop power supply
Compensation accuracy:	1°C (Temperature compensation range: -20°C ~ +60°C)
Temperature drift:	30ppm/°C
Response time:	$\leq 500\text{ms}$
Electromagnetic compatibility:	IEC 61326-3-1
Dielectric strength:	$\geq 3000\text{V AC}$ (intrinsically safe side / non-intrinsically safe side) $\geq 1500\text{V AC}$ (Power supply /non-intrinsically safe side)
Insulation resistance:	$\geq 100\text{M}\Omega$ (Input /Output/Power supply)
Operation temperature:	-20°C ~ +60°C
Storage temperature:	-40°C ~ +80°C
Dimension:	17.8mm (W) × 110mm (H) × 117mm (D)
Output states:	Default following mode, it can be configured as 4mA~20mA NE43 mode or fixed output mode.

Wiring diagram



Explosive-proof parameters

China National Quality Supervision and Test Centre for Explosion
Protected Electrical Products (CQST)

Ex marking: [Ex ia Ga] C

Um: 250V

Certified parameters (Terminals 1, 2):

$U_o=8.7\text{V}$, $I_o=33\text{mA}$, $P_o=72\text{mW}$

$C_o=3.58\mu\text{F}$, $L_o=21\text{mH}$