

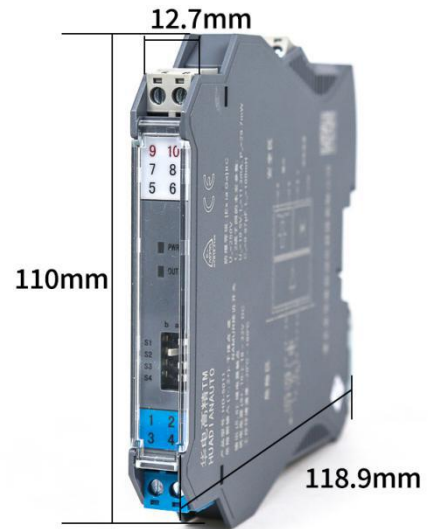
Analog output safety barrier

One in one out model: HD-5045

One in two out model: HD-5046

Two in two out model: HD-5049

Analog output safety barrier, input 4 ~ 20mA current signal from safe area, output 4 ~ 20mA current signal to danger area through isolation, drive valve positioner and other equipment on site, and support HART signal bidirectional transmission. This product requires independent power supply, input, output and power are isolated at three terminals.



Technical parameter

Power supply	18V DC~32V DC Power reverse protection
Working power	≤1.0W (24V, single full load output) ≤1.7W (24V, dual full load output)
input signal	4 ~ 20mA, HART digital signal
Input voltage drop	≤1.2V, internal resistance 60Ω at 20mA
output signal	4 ~ 20mA, HART digital signal
Allowable load	RL≤800Ω
Conversion accuracy	0.1%F.S (25°C±2°C)
Temperature drift	40ppm/°C
Response time	≤2ms
Electromagnetic Compatibility	IEC 61326-3-1
Dielectric strength	≥2500V AC (intrinsically safe and non-intrinsically safe) ≥1500V AC (between non-intrinsically safe ends) ≥100MΩ (between input / output / power)
Insulation resistance range of working temperature	-20°C ~ +60°C
Standard sizes	Width 12.7mm x Height 110mm x Depth 118.9mm
Panel description	PWR: Green power indicator
Application	Installed in safe area, can connect to zone 0, zone 1, zone 2; IIA, IIB, IIC; intrinsically safe equipment in T4 ~ T6 danger zone

Explosion-proof parameters:

National Instrumentation and Explosion-proof Safety Supervision and Inspection Station (NEPSI) Certification

Explosion-proof mark: [Ex ia Ga] IICPort voltage (Um): 250V

Certification parameters (between terminals 1, 2 and 3, 4):

Uo=28V, Io=93mA, Po=651mW

II C:Co=0.08μF, Lo=4mH

II B:Co=0.68μF, Lo=12mH

Wiring diagram

