

H Series Isolator

→ Introductions

This isolator converts the current/voltage signals into current/voltage signals, and also provides transmitters with power in the field. Current input isolator allows transmission of HART communication signals.

The input, output, and power supply are galvanically isolated from each other. The main advantages of the isolator are fast response, low dissipation and temperature stability. It can be interfaced with all kinds of device, such as DCS, PLC and other systems.

→ Parameters

Power supply: 24 V DC (Recommended voltage: 24 V DC)

Input signal types (1, 2, 3; 4, 5, 6):

Current: 0(4) ~ 20 mA; 0 ~ 10 mA

Voltage: 0(1) ~ 5 V; 0 ~ 10 V (Please see the product label for details)

Input resistance:

Current: Approx. 50 Ω

Voltage: ≥ 1 MΩ

Available

Operating voltage: 24 V, voltage: ≥ 22 V at 24 V

Operating current: 20 mA

Operating voltage: 24 V

Operating current: 0(4) ~ 20 mA; 0 ~ 10 mA

Operating voltage: 0(1) ~ 5 V; 0 ~ 10 V

For other signal types is required special customization, please see the product label for details

Resistance:

Working mode: $R_L \leq [(U-3)/0.02] \Omega$ U: Loop power supply

Current: 0(4) ~ 20 mA: ≤ 450 Ω; 0 ~ 10 mA: ≤ 900 Ω

Voltage: 0(1) ~ 5 V: ≥ 1 MΩ; 0 ~ 10 V: ≥ 2 MΩ

For other load resistance is required special customization, please see the product label for details.

Transmission characteristics:

Accuracy: ± 0.1% F.S. (25 °C ± 2 °C)

Response time: ≤ 2 ms

Temperature drift: 0.005%F.S./°C

Magnetic compatibility: According to GB/T 17626.3-2008

Electrostatic strength (1 mA leakage current, 1 minute)

Operating voltage: 24 V, voltage: ≥ 22 V at 24 V

Operating current: 20 mA

Operating voltage: 24 V

Operating current: 0(4) ~ 20 mA; 0 ~ 10 mA

Operating voltage: 0(1) ~ 5 V; 0 ~ 10 V

Nanjing New Power Electric Co., Ltd.

