1/2：GS8535-EX

2-wire (HART) transmitter, 3-wire transmitter, current source input isolated barrier, provide isolated power supplies for transmitters which located in hazardous area. Transfer 4~20mA signal from hazardous area to safe area.It also allows bi-directional transmission of HART communication signals.The product needs an independent power supply and galvanic isolation among power supply, input and output.

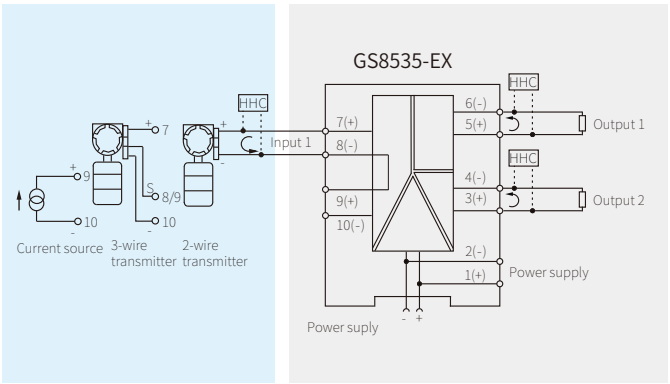
Dimensions：118.9mm×106.0mm×12.5mm

Specification

Supply Voltage：20~35V DC
Current Consumption：⩽75mA(Supply voltage: 24V; output: 20mA)
Safe-area Output：
Current：0/4~20mA, HART digital signal
Load Resistance：R_L⩽300Ω
HART Communication Load Resistance：R_L⩾250Ω
Voltage：0/1~5V
Load Resistance：R_L⩾330kΩ
Output loop powered voltage U_e：12~30V DC
Note：Customers need specify current(active or passive) or voltage output when ordering.
Hazardous-area Input：
Current：0/4~20mA, HART digital signal
Distribution：
Open-circuit Voltage：⩽28V
Voltage at 20mA：⩾15.5V
Normal working current：⩽25mA
Output Accuracy：0.1%F.S.(Typical：0.05%F.S.)
Temperature Drift：0.005%F.S./℃
Response Time(0~90%)：⩽2ms
Power Supply Protection：Power supply reverse protection
EMC：According to IEC 61326-1(GB/T 18268)，IEC 61326-3-1
Ambient Temperature：-20℃~+60℃
Dielectric Strength：
Between non-intrinsically safe part and intrinsically safe part⩾2500V AC
Between power supply part and output part⩾500V AC
Insulation Resistance：
Between non-intrinsically safe part and intrinsically safe part⩾100MΩ
Between power supply part and output part⩾100MΩ
Structure：GS8500 range structure customized by Phoenix Contact.
Weight：Approx. 110g
Suitable Location：Mounting in safe area, and connected to the IS apparatus in hazardous area up to zone0 IIC and zone20 IIIC.
Suitable Field Apparatus：2-wire (HART) transmitter, 3-wire transmitter, current source

Connection

Hazardous-area	Safe-area



Note: a) Can't use HHC (HART Hand Held Communicator) in hazardous area and safe area at the same time;
b) HHC(HART Hand Held Communicator)used in the hazardous area must get the explosion-proof certificate;
c) Bus-powered function is optional, if necessary please specified when ordering, and purchase bus power supply accessories in additional.

Explosion-proof Certificate

Certifying Authority：NEPSI(China)
Ex Marking：[Ex ia Ga] II C
[Ex iaD]
Maximum Voltage：Um=250V
Intrinsic Safety Parameters(7、8 / 9、10 terminals)：
U_o=28V，I_o=93mA，P_o=651mW
II C：C_o=0.083μF，L_o=4.2mH
★II B：C_o=0.65μF，L_o=12.6mH
II A：C_o=2.15μF，L_o=33.6mH
★II B Intrinsic Safety Parameters are also suitable for dust explosion protection[Ex iaD]
(9、10 terminals)：
U_o=3.5V，C_o=100μF
U_i=20V，I_i=110mA