

Model PUI

UHP(Ultra High Purity) Pressure Transmitter (Intrinsic safety explosion-proof certification)

Description

The PUI model is an intrinsically safe explosion-proof (Ex ia IIC T6...T4 Ga, IP65) certified product. The material of the wetted part is Hastelloy C22 and STS316L. Long-distance signal transmission is possible with 2-wire 4~20mA output. The output terminal type is M12 connector type or cable type, so it can be used according to the purpose. The zero point can be adjusted by volume on the side.

Features

- ▶ IECEx, KCs, NEPSI (planned) intrinsic safety explosion-proof certification(Ex ia IIC T6...T4 Ga, IP65)
- ▶ CE Certification
- ▶ 4~20mA (2-wire) analog output
- ▶ M12 connector or cable
- ▶ Wetted material: Hastelloy C22, STS316L

Applications

- ▶ Pressure monitoring in hazardous areas
- ▶ Gas panel
- ▶ Special and bulk gas supplies
- ▶ Semiconductor equipment

Specifications



Pressure Range	-15~100, 150, 250, 500, 3000psi(Gauge)
Accuracy	$\pm 0.25\%FS(RSS)^{(1)}$
Linearity	$\pm 0.2\%FS$
Hysteresis	$\pm 0.15\%FS$
Repeatability	$\pm 0.15\%FS$
Thermal Effect	Zero : 0.01%FS/°C, Span : 0.015%FS/°C
Compensated Temperature Range	-20~80°C
Power	12~28VDC
Output	4~20mA(2Wire)
Electrical Connection	M12 Connector(Cable 5m), Cable(5m)
Proof Pressure	150%FS max.
Wetted Part Materials	Diaphragm : Hastelloy C-22, Fitting : STS316L
Surface Treatment	EP(Electrolytic Polishing) typical Ra $\leq 0.13 \mu m$ (RA 5) per SEMI F19
Leak Rate	$< 1 \times 10^{-9}$ mbar l/sec (atm STD cc/sec) per SEMI F1
Process Connection Type	Single End : Fixed, Swivel, Weld Stub Flow Through : Fixed, Weld Stub Modular Surface Mount : 1.125", 1.5"
Pressure Port	9/16-18 UNF etc.
Explosion Proof	Ex ia IIC T6...T4 Ga, IP65
Ambient Temperature(Ta)	T6 : -20~40°C, T5 : -20~55°C, T4 : -20~80°C
Maximum Input Voltage(Ui)	28V
Maximum Input Current(Ii)	93mA
Maximum Input Power(Pi)	0.651W
Maximum Internal Inductance(Li)	30 μ H
Maximum Internal Capacitance(Ci)	0.074 μ F

⁽¹⁾RSS(Root Sum Square) : $\sqrt{Linearity^2 + Hysteresis^2 + Repeatability^2}$

Dimension

► Exterior

M12 Connector Type	Cable Type
<p style="text-align: center;">M12 Connector Zero adjustment part Vent Hole Ø27 54 7 Process Connection Pressure Port</p>	<p style="text-align: center;">Cable Zero adjustment part Vent Hole Ø27 54 7 Process Connection Pressure Port</p>

► Pipe connection(Process Connection)

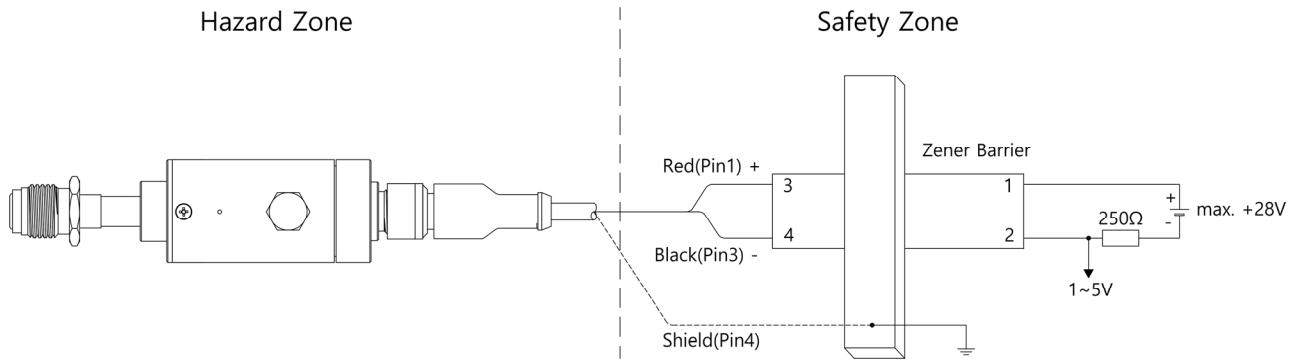
Single End Fixed	Single End Swivel	Single End Weld Stub	Flow Through Fixed	Flow Through Weld Stub	Modular Surface Mount

► Accessory

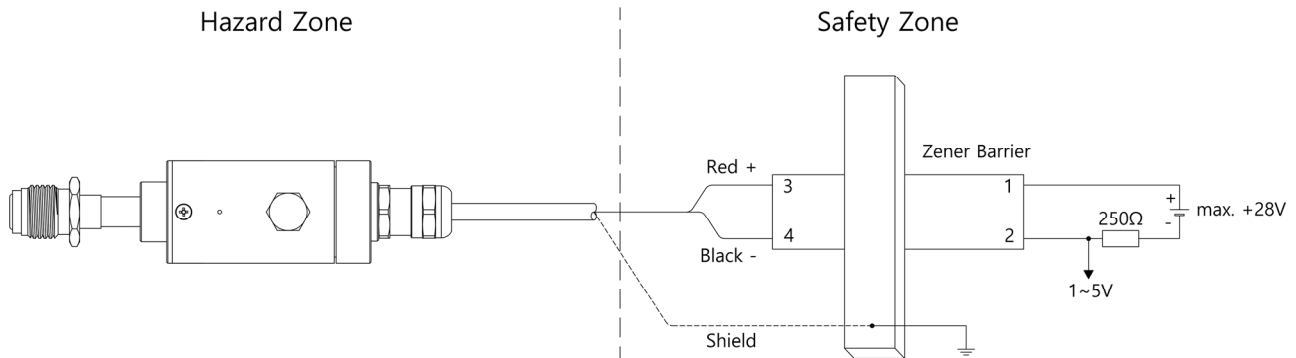
M12 Connector Ass'y(Straight)	M12 Connector Ass'y(Angled)

Electrical Connection

► M12 Connector Type Hazard Zone



► Cable Type Hazard Zone



Ordering Information

Model	PUI H C250 P V E G - A05 - □	Sales Code
Output H : 4~20mA(2Wire)		Pressure Port Option A05 : Single End, 1/4" VCR(Fixed) A15 : Single End, 1/4" VCR(Swivel) A16 : Single End, 1/4" Weld Stub A17 : Flow Through, 1/4" VCR(Fixed) A18 : Flow Through, 1/4" Weld Stub A22 : Modular Surface Mount 1.125" C A23 : Modular Surface Mount 1.125" W A24 : Modular Surface Mount 1.5" C A25 : Modular Surface Mount 1.5" W
Pressure Range XXXX : Pressure CXXX : Compound Pressure		Pressure Type G : Gauge
Pressure Unit R : kPa M : MPa K : kgf/cm ² B : bar P : psi		Electrical Connection Method E : M12 Connector S : Cable
Pressure Port V : Port Option		