



Series QDM

Ceramic Diaphragm Type
Corrosion Proof Pressure Transducer



QDM model is suitable for corrosion resistant environment since it uses ceramic pressure cell and Teflon body. Output of 1~5V or 4~20mA(2Wire), it may be interfaced with various controllers.

Feature

- Built-in amplifier circuit(VDC, mA)
- Measuring range 0~2MPa
- 0.5%FS accuracy
- Piezoresistive ceramic cell
- PP or PVC, ceramic(Al_2O_3) media-wetted materials

Applications

- Semiconductor Manufacturing Equipment
- High-purity Fluids
- Chemical Process
- Physics and Chemistry Equipment
- Waste Disposing Equipment

SPECIFICATIONS

Range

0 ~ 100, 200, 500, 700kPa / 1, 2MPa (Gauge)
-100 ~ 0, 100, 200, 500, 700kPa / 1, 2MPa (Gauge)

Performance

Accuracy	$\pm 0.5\% \text{FS(RSS)}$
Thermal Effect on Zero	$\pm 0.06\% \text{FS}/^\circ\text{C}$
Thermal Effect on Span	$\pm 0.06\% \text{FS}/^\circ\text{C}$
Compensated Temperature Range	-10 ~ 70 $^\circ\text{C}$
Operating Temperature Range	-20 ~ 80 $^\circ\text{C}$

Electrical

Excitation	11 ~ 28VDC
Output	0~5VDC, 1~5VDC, 0~10VDC, 4~20mA(2, 3Wire)
Electrical Connection	Din Connector

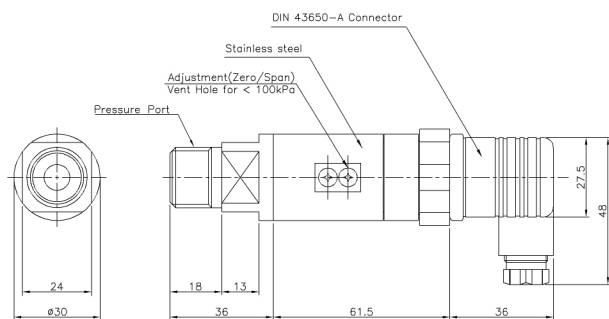
Physical

Proof Pressure	150%FS Max.
Burst Pressure	200%FS Min.
Vibration	49.1m/s ² {5G}, 10~500Hz
Shock	490m/s ² {50G}
Pressure port	R(PT)1/2", G(PF)1/2", Union
Media-Wetted Materials	PP or PVC, Ceramic(Al_2O_3 96%), VITON
Weight	Approx. 200g (Sensor Only)

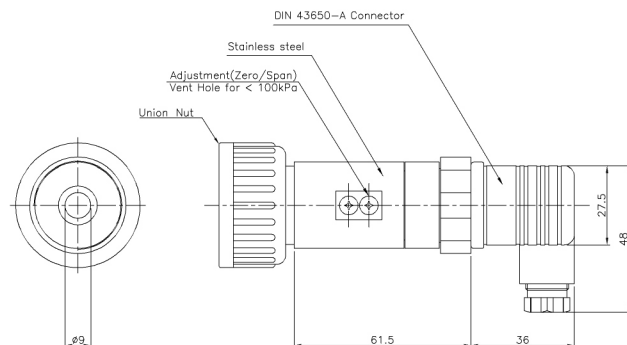


Dimension

► Thread Type



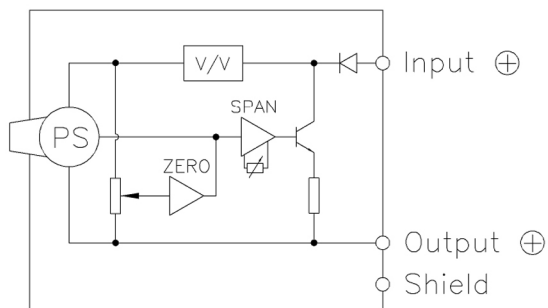
► Union Type



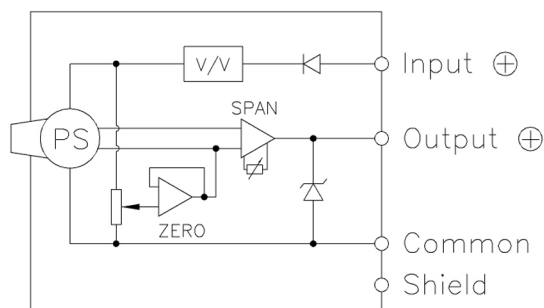
Pin No.	Connections	
	3Wire	2Wire
1	Input ⊕	Input ⊕
2	Common ⊖	Output ⊕
3	Output ⊕	×
⊕	Earth	Earth

Internal Circuit Diagram

► 2Wire mA Output Type



► 3, 4Wire mA, VDC Output Type



Ordering Information

Model Name		QDM	E	0100	R	E	I	A	Option	
Output		B : 4Wire 0~5V		G : 3Wire 4~20mA		C : 3Wire 0~5V		H : 2Wire 4~20mA		Connecting Methods
		D : 4Wire 1~5V		J : 3Wire 0~10V		E : 3Wire 1~5V		K : 4Wire 0~10V		I : Din 45650-A connector
		F : 4Wire 4~20mA								Pressure port
Pressure Range		XXXX : Pressure		CXXX : Compound Pressure						E : R(PT)1/2" Q : G(PF)1/2"
										P : Union
										Pressure Unit
										R : kPa M : MPa
										B : bar K : kgf/cm ²
										P : psi H : mmHg
										C : cmH ₂ O

* Specifications are subject to change without notice

WZO CONTROLS LTD