

Pureron High Performance Pressure Transducers

PC-302_{SERIES}



- Wide Pressure Range:** Able to accommodate a pressure range of 0-6 PSI (G) to 3,000- PSI(G), while absolute pressure types are available to cover ranges of 0-15, 25 and 50 PSI(A).
- Outstanding Accuracy:** $\pm 0.25\%$ span from best fit straight line, including the effects of non-linearity, hysteresis and repeatability.
- Wide Temperature Range:** Operating temperature of -65' to 200°F and compensated temperature from 30' to 160°F.
- High Corrosion Resistance:** Electropolished 316L SS is used for the material in contact with gases for high resistance to corrosion.
- High Durability:** Minimum of 1 million operating cycles (during vacuum/atmospheric cycle testing).



PC-302

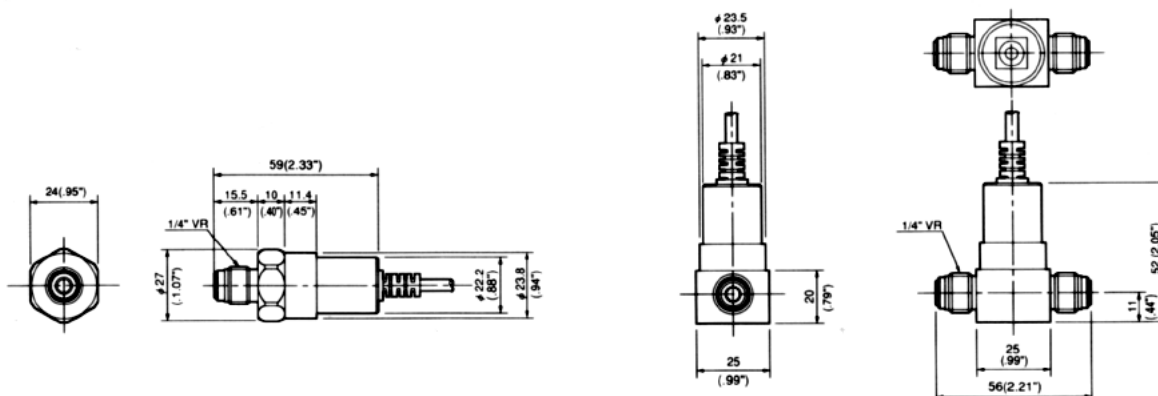
SERIES

Pureron Pressure Transducer PC-302 Series is Specially Designed for the Semiconductor Industry Allowing Measurement of Vacuum Referenced to either Absolute or Atmospheric Pressure

SPECIFICATIONS

Gauge/Absolute		Gauge Pressure							Absolute Pressure		
Pressure Range	PSI	0 to 6G	-14.7 to 25G	-14.7 to 50G	-14.7 to 100G	-14.7 to 200G	-14.7 to 2000G	-14.7 to 3000G	0 to 15A	0 to 25A	0 to 50A
	kgf/cm ²	0 to 0.42	-1 to 1.75	-1 to 3.51	-1 to 7.03	-1 to 14.06	-1 to 140.6	-1 to 210.9	—		
	torr	—							0 to 776	0 to 1293	0 to 2586
Accuracy (% Full Scale)		0.5%			0.25%		0.5%(0.25% available)		0.5%		
Excitation Voltage		5.0 VDC (6.0 VDC Max.)							5.0 VDC (6.0 VDC Max.)		
Output Voltage		100m VDC (20m V/V)	50m VDC (10m V/V)		100m VDC (20m V/V)				100m VDC (20m V/V)		
Zero Balance		±10.0m VDC at 25°C (77 F)									
Burst Pressure		Full Scale × 10			Full Scale × 5				Full Scale × 5		
Overload Pressure		Full Scale × 2									
Operating Temperature Range		-57°C to +93°C (−65°C to 200°F)									
Compensated Temperature Range		-1°C to + 71°C (30° to 160 F)									
Leak Rate		Max. 2 × 10 ⁻³ atm cc/sec									
Wetted Parts		Electropolished 316L SS						304 SS	Electropolished 316L SS		
Fittings		1/4" VCR compatible, 1/4" Swagelock compatible, 1/4" MCG compatible (Female threads are available)									

DIMENSIONS



MODEL PC-302A-VR

MODEL PC-302T-VR

HOW TO ORDER

Mounting Configuration

A : Straight threaded port
T : T-angle threaded port

Fitting Configuration

VR : VCR compatible
SW : Swagelock compatible
MG : MCG compatible

Thread Configuration

M : Male threads
F : Female threads

MODEL PC-302 **A** - **VR** - **15A** - **M** - **C**

Pressure Range

Gauge Pressure :

6G : 0~6PSIG (0~0.42kgf/cm²)
25G : -14.7~25PSIG (-1~1.75kgf/cm²)
50G : -14.7~50PSIG (-1~3.51kgf/cm²)
100G : -14.7~100PSIG (-1~14.06kgf/cm²)
2000G : -14.7~2000PSIG (-1~140.6kgf/cm²)
3000G : -14.7~3000PSIG (-1~210.9kgf/cm²)

Absolute Pressure :

15A : 0~15PSIA (0~776torr)
25A : 0~25PSIA (0~1293torr)
50A : 0~50PSIA (0~2586torr)

Connection to Display

C : With electrical connector
Blank : Wire cable only
*Standard wire cable length is 19.69" (1/2 meters). Longer cables are available.

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Specifications subject to change without notice.