

## Pureron High Performance Pressure Transducers

# PC-305<sub>SERIES</sub>



- Wide Pressure Range:** Ideal for a wide range of applications from 0~25 to 3,000 PSI range and also absolute pressure version available in, 0-15, 25 and 50 PSI(A) ranges.
- High 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 is used for the material in contact with gases for high resistance of corrosion.
- PC-304 Series** is for conventional 4-20mA output with accuracies to  $\pm 0.25\%$ .



# PC-305 S E R I E S

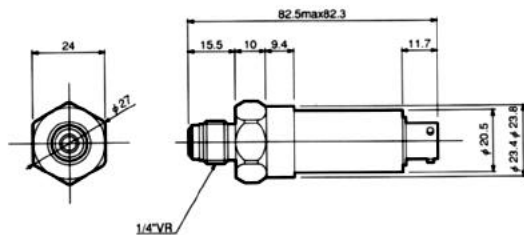
Pureron Pressure Transducer PC-305 Series is Specially Designed for the Semiconductor Industry with Highest Accuracy and Highest Reliability  
Allowing Measurement of Vacuum Referenced to either Absolute or Atmospheric Pressure

## SPECIFICATIONS

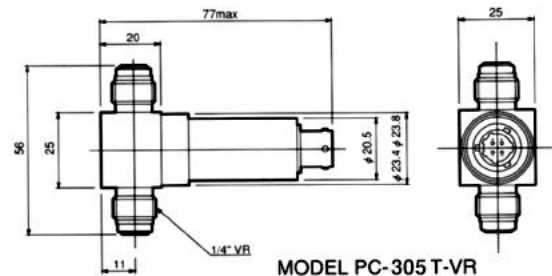
Gauge/Absolute		Gauge Pressure					Absolute Pressure		
		25G	50G	100G	200G	3000G	15A	25A	50A
Pressure Range	kg/cm2 (Note1)	0~1.76 (-1.03~-1.76)	0~3.52 (-1.03~-3.52)	0~7.03 (-1.03~-7.03)	0~14.06 (-1.03~-14.06)	0~210.9 (-1.03~-210.9)	—		
	torr	—					0~776	0~1293	0~2586
Accuracy (%Full Scale)		0.5%		0.25%		0.5%			
Material in Contact With Media		SUS316L							
Burst Pressure		Full Scale×5			Full Scale×2	Full Scale×5			
Overload Pressure		Full Scale×2							
Excitation Voltage		12 to 36Vdc							
Output		0-5 VDC							
Span		16mA±0.16mA							
Null Offset	4mA±0.4mA					4mA±0.4mA			
	at atmospheric press., also at vacuum at user's option					at vacuum			
Operating Temperature		-40℃ ~ 85℃ (-40°F ~ 185°F)							
Compensated Temperature		0℃ to 70℃ (+32°F ~ 158°F)							
Thermal Effect		0.02%/℃							
Connection & Fitting Type		VCR, Swagelock, MCG, Super JSK, UJR							
Leak Rate		1.5×10 <sup>-10</sup> torr l/sec							

Note 1: Pressure range in ( ) is at user's option. Note 2: Connector is "BENDIX R".

## DIMENSIONS



MODEL PC-305 A-VR



MODEL PC-305 T-VR

## HOW TO ORDER

### Mounting Configuration

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

### Fitting Configuration

VR: VCR compatible  
SV: Swagelock compatible  
MG: MCG compatible  
SJK: Super JSK Compatible

### Thread Configuration

M: Male threads  
F: Female threads

**MODEL PC-305 A - VR - 3000G - M - C**

### Pressure Range

#### Gauge Pressure:

25G: -14.7 ~ 25PSIG (-1 ~ 1.75kgf/cm<sup>2</sup>)  
50G: -14.7 ~ 50PSIG (-1 ~ 3.51kgf/cm<sup>2</sup>)  
100G: -14.7 ~ 100PSIG (-1 ~ 14.06kgf/cm<sup>2</sup>)  
2000G: -14.7 ~ 2000PSIG (-1 ~ 140.6kgf/cm<sup>2</sup>)  
3000G: -14.7 ~ 3000PSIG (-1 ~ 210.9kgf/cm<sup>2</sup>)

#### 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.