

# GL P-Series Pressure Transducer



The GL P-series is extremely low internal volume and excellent long-term stability as utilizing sensor available for UHP pressure transducers, sputtered Metal Thin Film Technology. It is technologically advanced products for gas supply system / gas distribution system, process tools.

LEADERS & GLOBAL only specializes in the manufacture of UHP Products for Semiconductor / Display / Solar Cell industry. We promise you to do our best for the best quality, service and continuously endeavor to make you deep impression.

## Special Features / Key Specifications

CE Certified / RoHS compliant

Superior Long Term Stability (instability and output errors due to Joule-Thomson effects (cooling effects))

Hastelloy for corrosive gases, Stainless Steel 316L (Double-Melt available)

The circuits are isolated from external interferences with EMI/EMC filters

Electro-polished Stainless Steel 316L gas-wetted materials and Cleaning and Package in classroom zone

$\pm 0.1\%$  Repeatability,  $\pm 0.25\%$  Accuracy

Products are designed with specific functional industry standards (ISA, SEMI, SEMASPEC, ASTM, ASME, FM Approval)

## Applications

- Gas Supply System (gas cabinets/rack, VMB/P, LDS)
- Gas Purification System (gas purifier, PSA)
- Gas Abatement System (gas scrubber)
- Process Tools (gas jungle box/ IGS)
- Bulk Supply Gas System (BSGS)
- Gas Tubing/Piping
- Specialty Gas Line

specifications are subject to change without notice

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## Standard Specifications

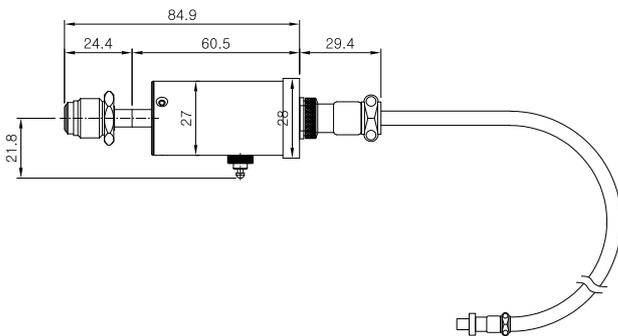
Repeatability	±0,1% Full scale	
Full Scale Range	0(-14.7) to 100, 250, 500, 3000, 10000psig (Optional)	
Over Pressure Safety	2 X Full scale	
Accuracy	± 0,25% FS (in accordance with ISA 37,3)	
Output	4-20mA (2 Wire)	1-5V, 0-5V, 0-10V (Optional)
Power Supply	DC 24V	DC 15-24V
Operating Temperature	-20 to 80°C	
Use Gas Temperature	0 to 60°C	
Thermal Effect	± 0,03% FSO / degree C within compensated temp. (±0,015% FSO Optional)	
Materials Exposed To Gases	Sensor : Stainless Steel 630 Series, Hastelloy / Connection : Stainless Steel 316L	
Seal Method	Ultra Precision Electron Beam Welding	
Internal Volume	1,50cc	
Surface Finish	EP treated Ra : <math>\lt; 0,25\mu\text{m}</math> (10μ inch, 5μ inch optional, in accordance with SEMI F19, F37)	
Fitting	Metal Face Seal (VCR, UJR) and others (welded, NPT/PT, Swagelok compatible)	
Electrical Connector	Pigtail, Tajimi, Bendix, D-Sub (Optional)	
Fitting Size	1/4", 3/8", 1/2", To be specified for the others	

Pressure Transducer were tested in accordance with ISA 37,3

## Dimensions

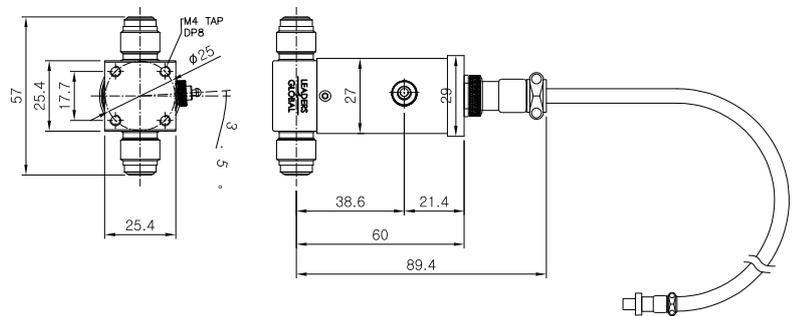
### Single Ended Type

[ GL P □ - □□□P - S - □□ - □□□□ ]



### Flow Through Type

[ GL P □ - □□□P - T - □□ - □□□□ ]



## Ordering Information

**GL PP - 010P - S - M4 - 420C**

### Trademark

GL : Leaders and Global

### Model Name

PP : Pressure Transducer Premium  
(Metal Thin Film, Stainless Steel 630 Series)  
PH : Pressure Transducer Premium  
(Metal Thin Film, Hastelloy )

### Pressure Range

010P : -14,7~ 100 psig  
015P : -14,7~ 150 psig  
020P : -14,7~ 200 psig  
025P : -14,7~ 250 psig  
050P : -14,7~ 500 psig  
300P : -14,7~3000 psig  
10KP : -14,7~10000 psig  
(160, 230, 1000, 5000 psig available)

### Output

420C : 4~20mA  
005V : 0~5V

### Fitting

M4 : VCR Male 1/4"  
M6 : VCR Male 3/8"  
M8 : VCR Male 1/2"

### Fitting Type

S : Single ended  
T : Flow through  
Z : Others