

GL ExP-Series Pressure Transducer (Explosion Protection) 내압방폭형



The GL ExP-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 enables them to be used **under dangerous and harsh conditions** on specialty gas installations, Applications are 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

Explosion protection / Ignition protection type (Ex d IIC T6)

CE Certified / RoHS compliant

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

Hastelloy Diaphragm for corrosive gases, Stainless Steel 316L (Double Melted 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

±0.1% Repeatability, ±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

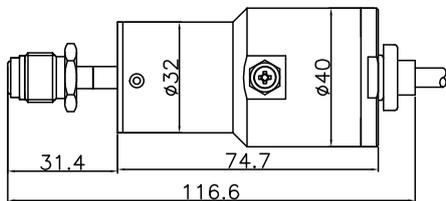
Repeatability	±0.1% Full scale	
Full Scale Range	0 (-14.7) to 100, 250, 500, 3000, 10000psig (Optional)	
Over Pressure Safety	2 X Full scale	
Accuracy	± 0.25% FS (in accordance with ISA 37.3)	
Output	4~20 mA (2 Wire)	1~5V, 0~5V, 0~10V (Optional)
Power Supply	DC 24V	DC 15~24V
Operating Temperature	-20 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 : $\lt; 0.25\mu\text{m}$ (10 μ inch, 5 μ 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	
Explosion protection / Ignition protection	Ex d IIC T6 (내압방폭)	

Pressure Transducer were tested in accordance with ISA 37.3

Dimensions

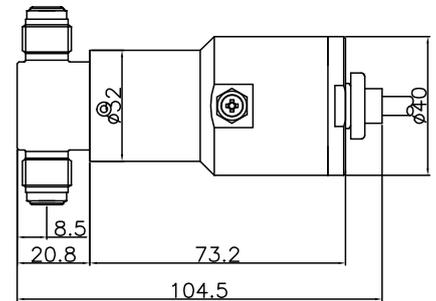
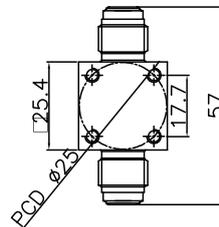
Single Ended Type

[GL ExP □ - □□□P - S - □□ - □□□□]



Flow Through Type

[GL ExP □ - □□□P - T - □□ - □□□□]



Ordering Information

GL ExP - 010P - S - M4 - 420C

Trademark

GL : Leaders and Global

Model Name

ExPS : Pressure Transducer Premium
(Metal Thin Film, Stainless Steel 630 Series)
ExPH : 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