

GL EXi-Series Pressure Transducer

본질안전 (Explosion Protection)



The GL EXi-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 (Zone 0~2)** 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 / OLED / LCD / LED / 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

Ex protection / Ignition protection type (Ex ia IIC T4)

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

$\pm 0.1\%$ 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 cabinet/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, 150, 200, 250, 500, 3000, 10000 psig
Over Pressure Safety	2 X Full scale
Accuracy	± 0,25% Full scale (in accordance with ISA 37,3)
Output	4-20 mA (2 Wire)
Power Supply	DC 24V
Operating Temperature	-20 to 80°C
Use Gas Temperature	0 to 60°C
Thermal Effect	± 0,03% FSO / °C within compensated temp, (±0,015% FSO Optional)
Materials Exposed To Gases	Sensor : Stainless Steel 630, Hastelloy / Connection : Stainless Steel 316L
Seal Method	Ultra Precision Electron Beam Welding
Internal Volume	1,50cc
Surface Finish	EP treated Ra : $\langle 0,25\mu\text{m}$ (10μinch, 5μinch optional, in accordance with SEMI F19, F37)
Fitting	Metal face seal (VCR, UJR) and others (welded, NPT/PT, Swagelok compatible)
Electrical Connector	SCN-12-4(R), Pigtail, MVS/A, M12x1, others on request
Fitting Size	1/4", 3/8", 1/2", To be specified for the others
I/O Electrical Parameters	U _i =28V, I _i =119mA, P _i =0,853W, L _i =11,9μH, C _i =0,0825μF
Recommended Zener Barrier Parameters (권장)	U _o =28V, I _o =119mA, P _o =0,835W, L _o =1,82mH, C _o =0,083 uF
Explosion protection / Ignition protection	Ex ia IIC T4 (본질안전)

Pressure Transducer were tested in accordance with ISA 37.3

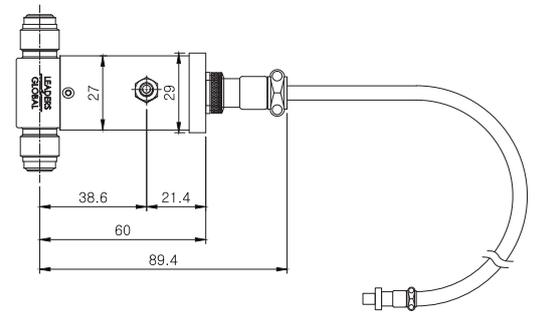
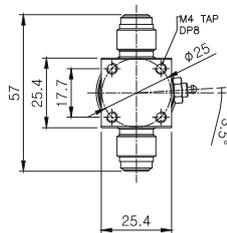
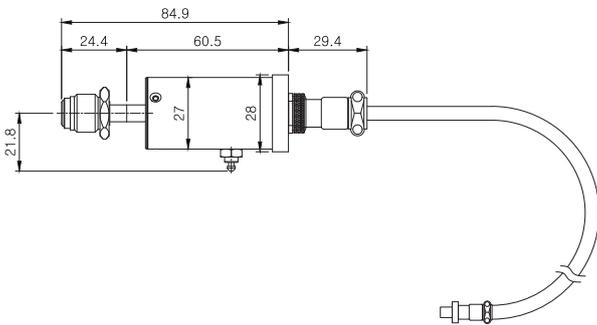
Dimensions

Single Ended Type

[GL EXi - □ - □□□P - S - □□ - □□□□]

Flow Through Type

[GL EXi - □ - □□□P - T - □□ - □□□□]



Ordering Information

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

Trademark

GL : Leaders and Global

Model Name

Intrinsic Explosion-proof

SENSOR TYPE

S: Pressure Transducer Premium
(Metal Thin Film, Stainless Steel 630 Series)
H: Pressure Transducer Premium
(Metal Thin Film, Hastelloy)

Pressure Range

010P : -14.7 ~ 100 psig 050P : -14.7 ~ 500 psig
015P : -14.7 ~ 150 psig 300P : -14.7 ~ 3000 psig
020P : -14.7 ~ 200 psig 10KP : -14.7 ~ 10000 psig
025P : -14.7 ~ 250 psig (160, 230, 1000, 5000 psig available)

Output

420C : 4~20mA

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