Data Sheet



ZL92 Fluoropolymer Pressure Transducer For Corrosive Liquids and Gases

FEATURES

- PTFE/PFA wetted parts
- Corrosion resistant to chemicals such as hydrofluoric acid
- Compatible with pipe diameters from 0.25 to 0.5 in. O.D.
- Capacitance sensor for excellent thermal stability
- Multiple mounting options include tube connections, press fit nuts, flared nuts, and threaded nuts
- Class 100 cleanroom packaged and double bagged

TYPICAL USES

- Cleaning equipment for semiconductor
- Cleaning equipment for Flat Panel Displays (FPD)
- Wet stations
- Chemical supply systems



ZL92

Pressure Transducer





PERFORMANCE SPECIFICATIONS

Static Accuracy: ±1.0% of span @ 73°F (23°C)

Accuracy includes the effects of linearity,

hysteresis and repeatability

Temperature Effect: ±0.05% of span/°C (Zero & Span) in operating

temperature range

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: 50°F to 140°F (10°C to 60°C)

Storage Temperature: 14°F to 149°F (-10°C to 65°C)

Humidity: 25% to 80% RH

FUNCTIONAL SPECIFICATIONS

Pressure Ranges: 0-45 psi to 0-75 psi

Response Time: ≤ 100 mSec (10% to 90%)

Proof Pressure: 100 psi max.

ELECTRICAL SPECIFICATIONS

Output Signal: 4 to 20 mA (2 wire) or 1 to 5 Vdc (3 wire)

Supply Voltage: 21.6 to 26.4 Vdc for 2 wire,

12-24 Vdc for 3 wire

Load Resistance: Rmax = 500Ω for 2 wire, $10k\Omega$ for 3 wire

Insulation Resistance: $> 100M\Omega$ at 50 Vdc

EMC/EMI: EN61326-1: 2013, EN61326-2-3: 2013

KEY BENEFITS

- Isolated sensing elements for corrosive liquids and gases incorporating special vent design
- Low metal ion elution
- PTFE/PFA wetted parts for protection against corrosion

PHYSICAL SPECIFICATIONS

Ingress Rating: IP54

Case Material: Polypropylene and PTFE/PFA

Pressure Connection Tube connection sizes include: ¼", ¾", and ½"

Sizes:

Unit Weight: Approx. 140g

WETTED MATERIALS

Fitting: PTFE/PFA Diaphragm: PFA

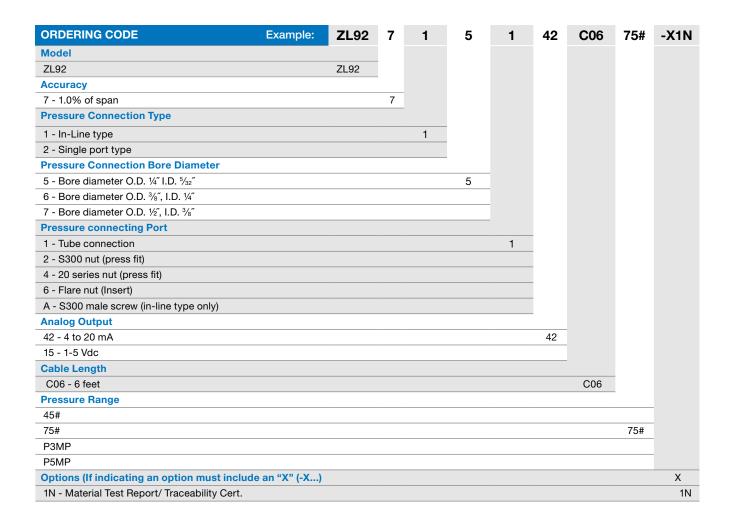
APPROVALS

CE. RoHS

Data Sheet



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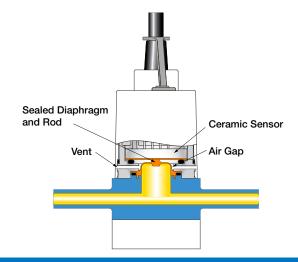


ZL92 Fluoropolymer Pressure Transducer For Corrosive Liquids and Gases

STANDARD RANGES		
psi	mPa	
45#	РЗМР	
75#	P5MP	

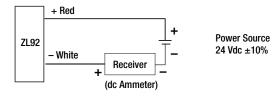
INTRODUCTION

The ZL92 is a fluoropolymer pressure transducer designed for use in semiconductor processes that require PTFE/PFA wetted parts for improved chemical compatibility for use in corrosive gases and fluids. A secondary isolation diaphragm and vent design isolates the ceramic sensing element from corrosive gases and liquids.

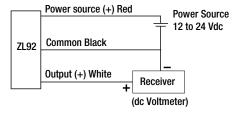


WIRING DIAGRAMS

Two Wire System (Current output)



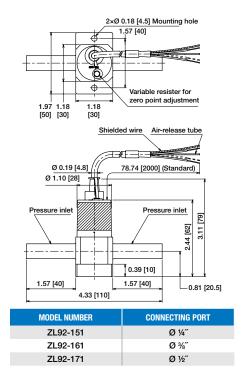
Three Wire System (Voltage output)



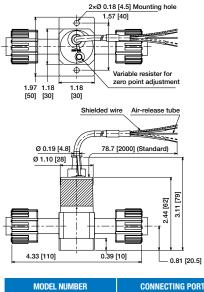
Inline Pressure Connection Dimensions are inches [mm]

For Reference only, consult Ashcroft for specific dimension drawings

Tube Connection



S300 Nut (Press Fit) From Pillar Packing Co., Ltd



MODEL NUMBER	CONNECTING PORT
ZL92-152	Ø ¼"
ZL92-162	Ø %″
ZL92-172	Ø ½"

Data Sheet

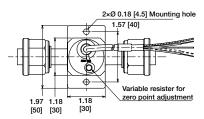


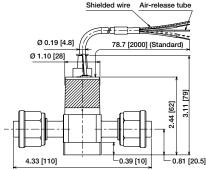
ZL92 Fluoropolymer Pressure Transducer For Corrosive Liquids and Gases

Inline Pressure Connection Dimensions are inches [mm]

For Reference only, consult Ashcroft for specific dimension drawings

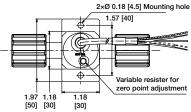
20 Series Nut (Press Fit) Flowell Corporation

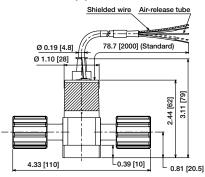




MODEL NUMBER	CONNECTING PORT
ZL92-154	Ø ¼"
ZL92-164	Ø %″
ZL92-174	Ø ½"

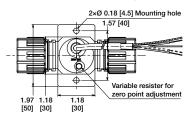
Flare Nut (Insert) From Entgris, Inc

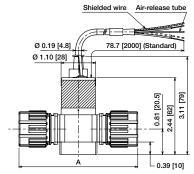




MODEL NUMBER	CONNECTING PORT
ZL92-156	Ø ¼″
ZL92-166	Ø %″
ZL92-176	Ø ½"

S300 Male Screw From Pillar Packing Co., Ltd





MODEL NUMBER	CONNECTING PORT	A SIZE
ZL92-15A	Ø ¼″	2.68 [68]
ZL92-16A	Ø %″	3.15 [80]
ZL92-17A	Ø ½″	3.78 [96]

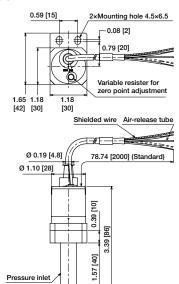


ZL92 Fluoropolymer Pressure Transducer For Corrosive Liquids and Gases

Single Port Pressure Connection Dimensions are inches [mm]

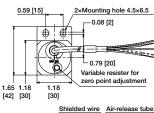
For Reference only, consult Ashcroft for specific dimension drawings

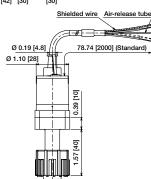
Tube Connection



MODEL NUMBER	CONNECTING PORT
ZL92-251	Ø ¼"
ZL92-261	Ø %″
ZL92-271	Ø ½"

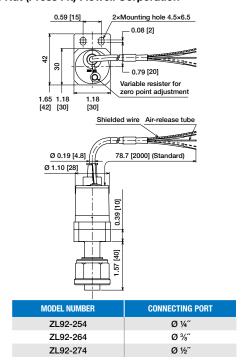
S300 Nut (Press Fit) From Nippon Pillar Packing Co., Ltd.





MODEL NUMBER	CONNECTING PORT
ZL92-252	Ø ¼"
ZL92-262	Ø %″
ZL92-272	Ø 1/2"

20 Series Nut (Press Fit) Flowell Corporation



Flare Nut (Insert) From Entgris, Inc

