



# L02-04-0102 – Space Pressure Transmitter

## Product Description

The L02-04-0102 is a low differential space pressure transmitter that is capable of sensing space pressures from  $\pm 0.5$ " WC to  $\pm 0.3$ " of water column. Each pressure transmitter utilizes a high quality ceramic capacitive sensor to provide long term stability and performance. Variable capacitance sensors have a good signal to noise ratio and are not plagued by temperature drift.

The L02-04-0102 will provide a three-wire, 0 to 10 VDC output signal with an overall accuracy of  $\pm 1\%$  of the full scale over the compensated temperature range. The transmitter may be powered by a regulated,  $\pm 19$ -36 VDC or 24 VAC supply, and is polarity sensitive. In addition to the standard span of  $-0.5$ " to  $+0.5$ " WC, each transmitter is capable of being field adjusted to the additional span of  $-0.3$ " to  $+0.3$ " WC by resetting the internal jumpers. A slight zero offset may be needed. This feature provides greater flexibility in the field. The L02-04-0102 may be used with any of the pitot tubes listed for the measurement of static or differential pressure.



## Features and Application Highlights

The L02-04-0102 pressure transmitters may be used in many different applications including:

- Static Pressure Control
- Leak Detection
- Monitoring Filter Blockage
- Pneumatic Controls
- Variable Air Volume Systems (VAVs)

## Technical Data

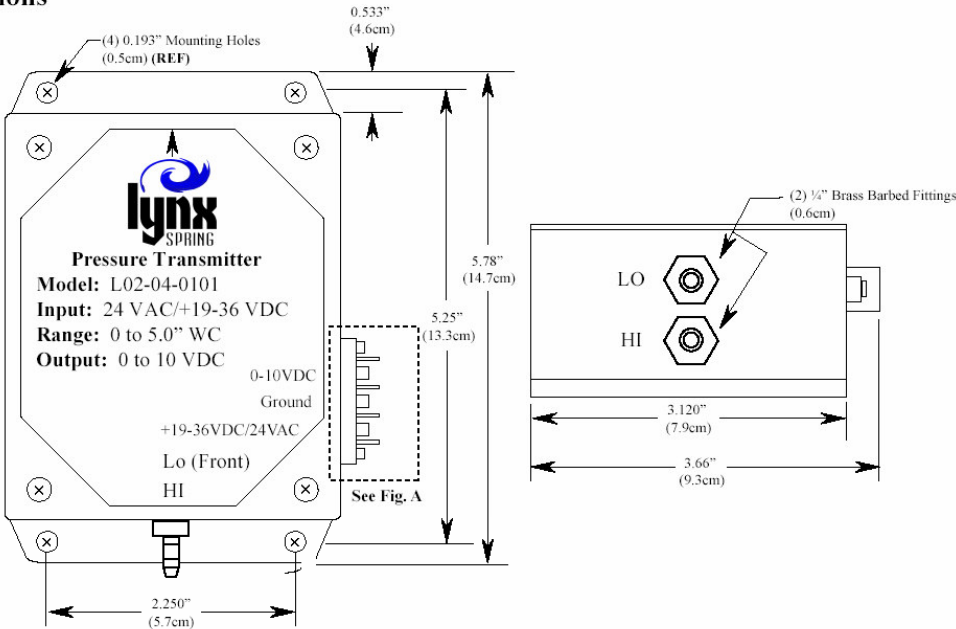
<b>Supply Voltage</b>	• $\pm 19$ to 36 VDC / 24 VAC $\pm 10\%$
<b>Transmitter Output</b>	• 0-10 VDC
<b>Pressure Range</b>	• $-0.5$ " to $0.5$ " WC
<b>Adjustable Ranges</b>	• $-0.3$ to $0.3$ " WC
<b>Response Time</b>	• 15 msec - 63% full scale step
<b>Position Effect</b>	• 2% Null shift from vertical to horizontal
<b>Pressure Overload</b>	
<b>Positive Pressure</b>	• 25.0" WC
<b>Negative Pressure</b>	• 15.0" WC
<b>Transmitter Accuracy</b>	• $\pm 1\%$ of span
<b>Mounting Direction</b>	• Must be mounted with the Brass Fittings Pointed downward
<b>Operating Temperature Range</b>	• $-10$ to $60^{\circ}\text{C}$ ( $14$ to $140^{\circ}\text{F}$ )
<b>Compensated Temperature Range</b>	• $10$ to $40^{\circ}\text{C}$ ( $50$ to $104^{\circ}\text{F}$ )
<b>Linearity</b>	• $\pm 0.5\%$ of span
<b>Pressure Fittings</b>	• $1/4$ " barbed fitting (Brass)
<b>Temperature Error</b>	
<b>Zero</b>	• $\pm 1.5\%$ FSO
<b>Span</b>	• $\pm 1.5\%$ FSO
<b>Screw Terminals</b>	• Accepts 18-22 AWG Wire
<b>Optional Accessories</b>	• See back of product Data sheet



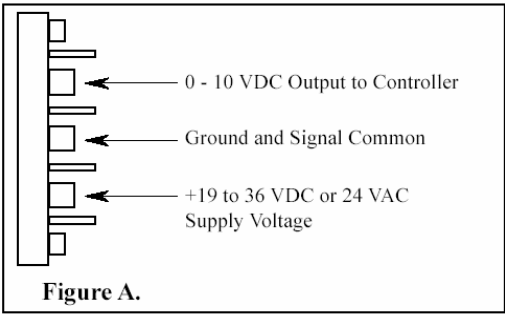
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## Device Detail

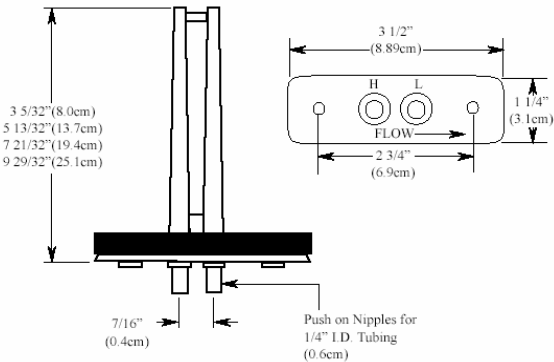
### Dimensions



### Wiring Diagram



### Pitot Tube



## Ordering Information

Model #	Description
L02-04-0102	-0.5" to 0.5" Pressure Transmitter without Pitot Tube

Accessory Items	Description
PT 3 5/32"	Pitot Tube with 1 sensing point
PT 5 13/32"	Pitot Tube with 2 sensing points
PT 7 21/32"	Pitot Tube with 3 sensing points
PT 9 29/32"	Pitot Tube with 4 sensing points