

Series 860

Pressure Transducer



Features & Applications

- Available in custom pressure ranges from 0/0.25"WC up to 0/15PSI, including bi-directional
- Output stability of $\pm 0.5\%$ FSO
- Perfect for a variety of air and inert gas applications such as duct static, VAV and fan control
- Easy wiring via a pluggable screw terminal block
- Pressure range calibrated to customer's specific requirement
- Able to handle high overpressure
- Internally conditioned allowing it to automatically accept unregulated 12-24 VDC or 24 VAC power

Note: Controller Sensors LLC reserves the right to not assume any liability arising out of the application under its patent rights nor the rights of others.

Specifications

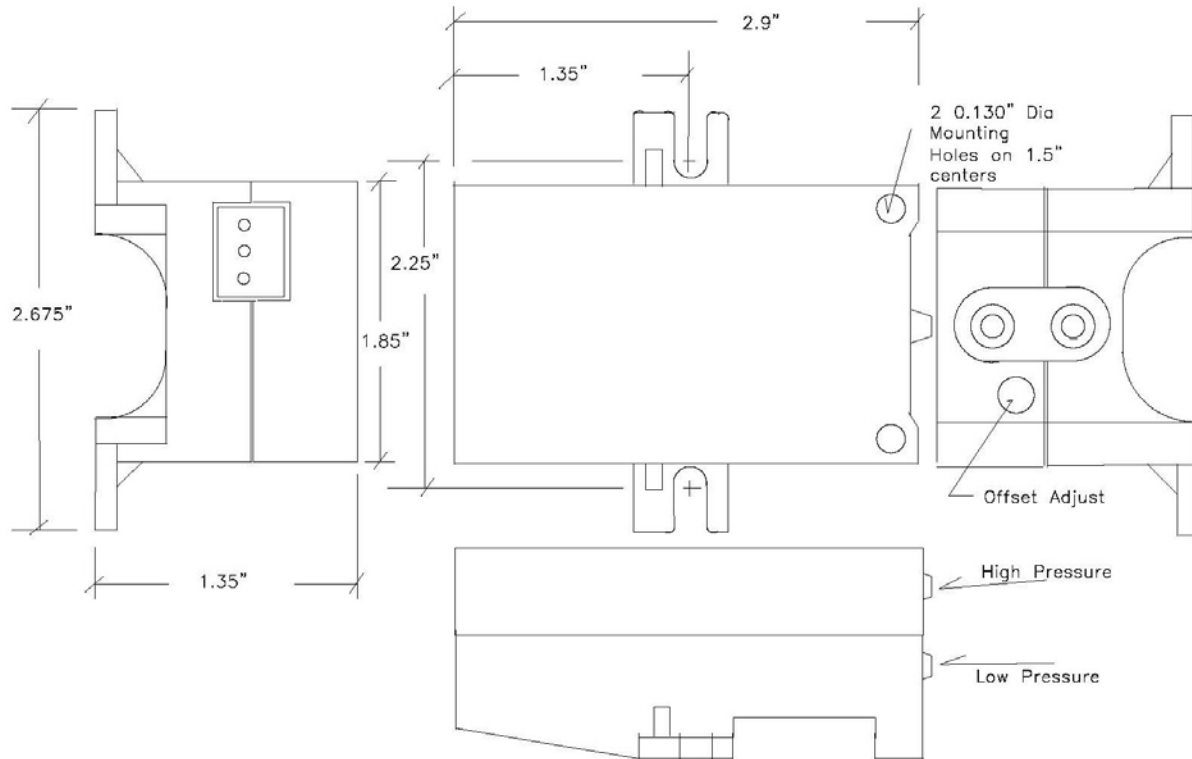
Accuracy*:	$\pm 1.0\%$ FSO
Stability:	$\pm 0.5\%$ FSO/yr
Thermal Effects:	$\pm 0.075\%$ FSO/ $^{\circ}\text{C}$
Overpressure:	1-10"WC = 100"WC 11-20"WC = 10x rated pressure 21-30"WC = 5x rated pressure Over 30"WC = 45 PSI
FSO Pressure Range:	0/0.25"WC up to 0/15PSI (bi-directional ranges available)
Compensated Range:	10 to 50 $^{\circ}\text{C}$
Media:	Non-corrosive, non-ionic gases
Operating Humidity:	90% RH non-condensing
Operating Temp:	-25 $^{\circ}$ to 70 $^{\circ}\text{C}$
Input Supply**:	12-24 VDC/24VAC**
Supply Current:	<10mA (Voltage Output) <30mA (Current Output)
Load Resistance:	2K Ω minimum on voltage out, 250 Ω , maximum loop resistance on 4-20mA output (500 Ω max loop resistance available upon request**)
Output Signal:	1-5VDC, 1-6VDC, 1-10VDC** or 4-20mA*** (call for custom outputs)
Electrical Connections:	Pluggable screw terminal block
Pressure Connections:	Barbed fitting for 1/8" ID tubing
Enclosure:	Impact resistant ABS plastic
Dimensions:	Approx. 3.5" x 2.7" x 1.4" (8.7cm x 6.8cm x 3.5cm)

* Includes non-linearity hysteresis and non-repeatability at a fixed temperature

** An input of 18-24VDC/AC is required to drive a 500 Ω load; the same input is also required for a 1-10VDC output

*** 3-wire 4-20mA

Physical Drawing



How to Order

A typical order number consists of the **model** number, **type**, **output signal**, **pressure range** and **calibration pressure**.

<u>Model</u>	<u>Type</u>	<u>Output Signal</u>	<u>FSO Pressure Range</u>	<u>Calibration Pressure</u>
860	D = Differential or Gage*	0.....1 to 5 volts 1.....1 to 6 volts 2.....1 to 10 volts** 3.....4-20mA (250Ω load) 4.....4-20mA (500Ω load)** 5.....Custom Output	0.....0.25"WC to 5"WC 1.....>5"WC to 13" WC 2.....>0.5PSI to 1PSI 3.....>1PSI to 5PSI 4.....>5PSI to 15PSI	Customer designated exact FSO

Example: 860D-01 Cal Pressure = 6" WC. "Pressure Range" is not a specific number. Please indicate exact calibration pressure. (This unit has an output of 1-5 VDC and will be calibrated to 6" WC.) If a custom output is needed, the exact output must be specified.

* With a gage application, one of the two pressure ports is vented to atmosphere

** With a 1-10 VDC output as well as with a 4-20mA output that needs to drive a 500Ω load a 18-24 VDC/24VAC input is required.