# Series 865 Pressure Transducer with Display



#### **Features & Applications**

- Easy to read display (0.38" height)
- Available in custom pressure ranges from 0/0.25"WC up to 0/15PSI, including bi-directional
- Output Stability of 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
- Reverse voltage protection

## **Specifications**

Accuracy*:	+/-1.0% FSO	
Stability:	+/-0.5% FSO/yr	
Thermal Effects:	+/-0.075% FSO/°C	
Overpressure:	1-10"WC = 100"WC 11-20"WC = 10x rated pressure 21-30"WC = 5x rated pressure Over 30"WC = 45PSI	
FSO Pressure Range:	0/0.25"WC up to 0/15PSI (bi-directional ranges available)	
Compensated Range:	10° to 50°C	
Media:	Non-corrosive, non-ionic gases	
Operating Humidity:	90% RH non-condensing	
Operating Temp:	-25° to 70°C	
Input Supply**:	12-24 VDC/24VAC	
Supply Current:	<30mA	
Load Resistance:	$2K\Omega$ minimum on voltage out, $250\Omega$ maximum loop resistance on 4-20mA output ( $500\Omega$ max loop resistance available upon request**)	
Output Signal:	1-5VDC, 1-6VDC, 1-10VDC** or 4-20mA*** (call for custom outputs)	
Circuit Protection:	Output limited and reverse voltage protected	
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  $500\Omega$  load; the same input is also required for a 1-10VDC output
- \*\*\* 3-wire 4-20mA

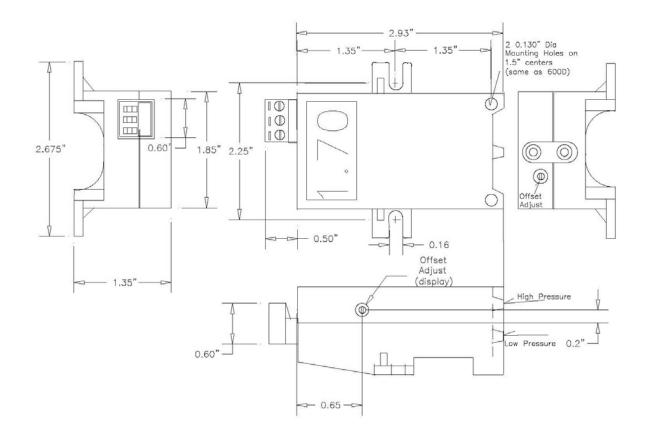
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DS-865 Rev A

## **Physical Drawing**



#### **How to Order**

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

Model	Type	<u>Output Signal</u>	FSO Pressure Range	Calibration Pressure
865	D = Differential or Gage*	01 to 5 volts 11 to 6 volts 21 to 10 volts**	00.25"WC to 5"WC 1>5"WC to 13" WC 2>0.5PSI to 1PSI	Customer designated exact FSO
		21 to 10 volts 34-20mA (250Ω load) 44-20mA (500Ω load)** 5Custom Output	3>1PSI to 5PSI 4>5PSI to 15PSI	

*Example:* **865D-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 500 $\Omega$  load a 18-24 VDC/24VAC input is required.



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