

# Series 851

## Range-Adjustable Pressure Transducer



### Features & Applications

- 8 selectable pressure ranges
- 3 selectable outputs
- No need to ever open the case to make adjustments
- No jumpers to lose
- Over 85% of all HVAC applications covered in just 3 units
- Great way to cut down on inventory and decrease overhead

### Specifications

Accuracy*:	+/-1% FSO
Stability:	+/-1% 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 = 45 PSI
FSO Pressure Range:	4"WC, 12"WC, 4PSI, 12PSI Selectable - see range chart
Compensated Range:	10 to 50°C
Adjustments:	Offset (for adjusting offset when selecting ranges)
Media:	Non-corrosive and non-ionic gases
Operating Humidity:	90% RH non-condensing
Operating Temp:	-25° to 70°C
Input Supply:	18-24 VDC/24 VAC
Supply Current:	<10mA (Voltage Output) <30mA (Current Output)
Load Resistance:	2KΩ minimum on voltage output, 500Ω maximum loop resistance on 4-20mA output
Output Signal:	Selectable: 1-5VDC, 1-10VDC, 4- 20mA**
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) with mounting flanges

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

\*\* 3-wire; 4-20mA

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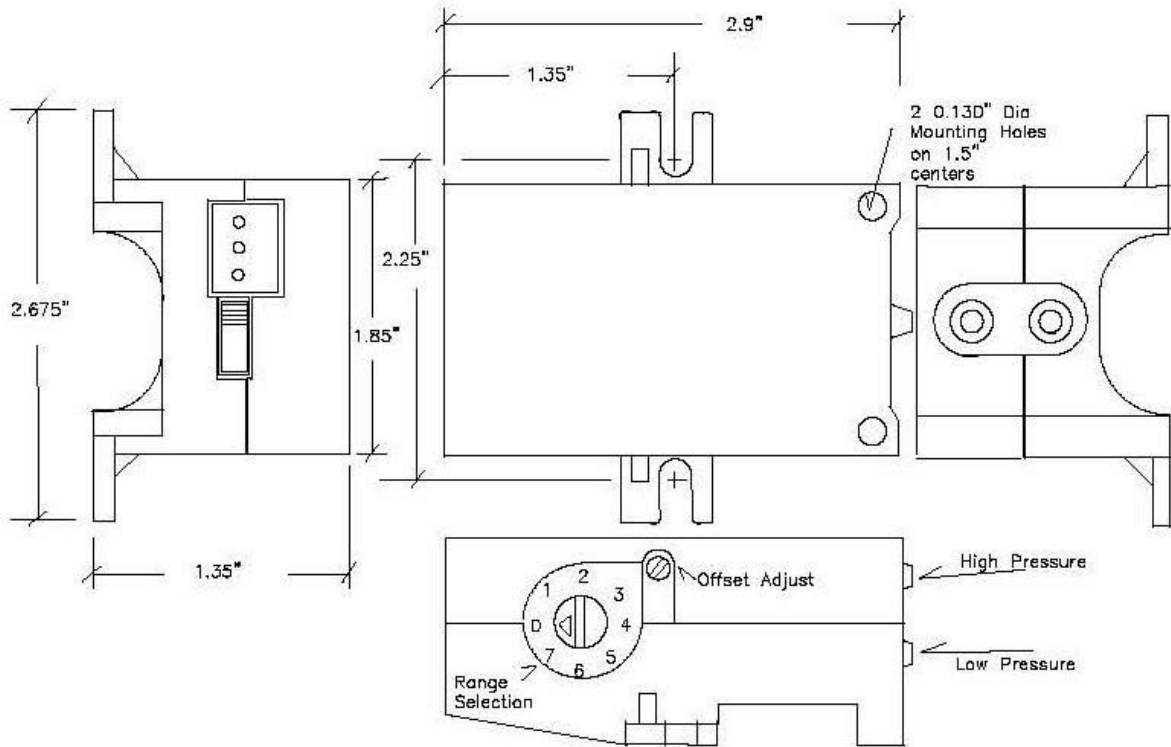


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## Physical Drawing



## How to Order

A typical order number consists of the **model** number, **type**, and **version**.

<u>Model</u>	<u>Type</u>	<u>Version</u>	<u>Selectable Pressure Ranges</u>	<u>Selectable Output Signals</u>
851	D = Differential Or Gage*	4WC	0-4"WC; 2"WC; 1"WC; 0.5"WC +/-2"WC; +/-1"WC; +/-0.5"WC; +/-0.25"WC	1-5VDC 1-10VDC 4-20mA**
		12WC	0-12"WC; 6"WC; 3"WC; 1.5"WC +/-6"WC; +/-3"WC; +/-1.5"WC; +/-0.75"WC	
		4PSI	0-4PSI; 2PSI; 1PSI; 0.5PSI +/-2PSI; +/-1PSI; +/-0.5PSI; +/-0.25PSI	
		12PSI	0-12PSI; 6PSI; 3PSI; 1.5PSI +/-6PSI; +/-3PSI; +/-1.5PSI; +/-0.75PSI	

*Example: 851D 4" WC* provides a part that has 4"WC FSO with eight (8) rotary switch selectable pressures as designated above as well as the three (3) slide switch selectable outputs as designated above.

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

\*\* All units will drive 500 ohms with the 4-20mA output selection

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