162 Model Low Differential Pressure Transducer



The Model 162 Series are low range differential pressure transducers and transmitters. Each unit features a stainless steel pressure sensor, a stainless steel back cover and a plastic enclosure, which meets the NEMA 1 requirement. The electrical terminal screws and adjustment holes are concealed beneath a detachable plastic cap. All units are fully protected against short circuiting and incorrect wiring.

The Model 162 Series are available for full scale pressure range from 0 to 0.1"WC till 0 to 100"WC. Both unidirectional and bidirectional pressure ranges are offered.The output of the Model 162 Pressure Transducer is available in two versions: 0 to 5VDC and 0 to 10VDC, where 0VDC is true zero without offset. The output of Model162 Pressure Transmitter is 4 to 20 mA. All units are temperature compensated. The accuracy can be 0.6%, 0.4% or 0.25% at room temperature.

The patented variable capacitance pressure sensor is constructed by stainless steel and glass, no glue or other organics. That provides excellent performance, corrosion resistance and long-term stability.

Additionally, our unique production setup allows us to accommodate special orders for nonstandard pressure ranges (e.g. -0.5"WC to +3.5"WC).

Model 162 Specifications

Performance Data	Standard	Optional	Optional			
Accuracy* (at room temp)	±0.60%FS	±0.40%FS	±0.25%FS			
Non-Linearity (BFSL)	土0.55%FS	±0.37%FS	±0.24%FS			
Hysteresis	±0.20%FS	±0.10%FS	±0.05%FS			
Non-Repeatability	±0.10%FS	±0.10%FS	±0.05%FS			
Thermal Effects: Zero/Span Shift (/°F)	±0.03%FS	±0.02%FS	±0.015%FS			
Compensated Range	40 to 170°F (4 to 77°C)					
Maximum Line Pressure	15PSI(100kPa)					
Overpressure	15PSI(100kPa) in Positive or Negative Direction for all Ranges					
Stability	±0.5% FS/YR					
Warm-up Time	5 seconds to meet specifications					
Position Effect	Each unit is calibrated in the vertical position. For best accuracy,					
	adjust zero of the unit if it is mounted in other position. It is not					
	necessary to adjust the sensitivity.					

* RSS of Non-Linearity, Hysteresis, and Non-Repeatability.

Environmental Data and Physical Description

Operating Temperature Storage Temperature Electrical Termination Pressure Fittings

Zero & Span Adjustment Pressure Media Enclosure Weight Installation 0 to 170° F(-18 to 77°C) -40 to 185°F (-40 to 85°C) Terminal Strip 3/16" O.D. barbed brass for 1/8" I.D. push-on tubing(standard). 6.5mm and 8mm O.D. barbed brass(optional) Accessible under the small cap Typically air or similar non-conducting gases Stainless Steel and PC+ABS Alloy, 94V-0 Rated 4.00Z/113g See Diagram 1 for outline and dimensions.



Applications:

- HVAC and VAV Control
- Clean Rooms and Isolation Rooms
- Duct Static Pressure Measurement
- Draft Control and Fume Hood Control
- Furnace Air Flow Control
- Power Plant Air Flow Monitor and Control

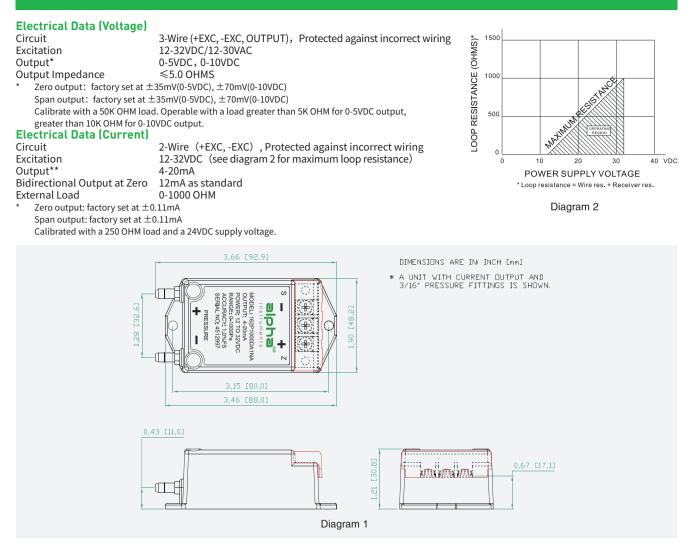
Features

- 15 PSI Over Pressure
- Incorrect Wiring Protection
- Nonstandard Pressure Ranges
- True Zero Output for Voltage Unit
- RoHS Compliant

Visit us Online: www.alphainstruments.com E-mail: sales@alphainstruments.com



Model 162 Specifications



Ordering Information

Code all blocks in table.

Example: 162W00R1DA6NA for 162 Transmitter, 0~0.1 in. WC Range, Unidirectional, 4-20mA Output, 0.6% Accuracy, No Calibration Certificate, 3/16" Barbed Brass Pressure Fittings.

1 6 2	\Box		\Box	\Box	\Box	\Box	\Box	
Model	Unit	Range	Pressure Type	Output	Accuracy	Certificate	Pressure Fitting	
162	P: Pascal	NNNN	Differential	A: 4-20mA	6:0.6%FS	Y: (with)	A: 3/16"	
	W: in. W.C.		D: Unidirectional	B: 0-5VDC	4: 0.4%FS	N: (without)	B: 8mm	
			B: Bidirectional	C: 0-10VDC	2: 0.25%FS		E: 6.5mm	
							(Barbed Brass)	
Pressure Unit/Range/Type								
in. W.C. (Ur	nidirectional)	in. W.C. (E	Bidirectional)	Pasca	l (Unidirectio	nal) Pasca	l (Bidirectional)	
W00R1D=01	to 0.1 in. W.C.	W0R05B=-	0.05 to 0.05 in. W.C.	P0025	D=0 to 25 Pa	P0010)B=-10 to 10 Pa	
W0R25D=01	to 0.25 in. W.C.	W00R1B=-	0.1 to 0.1 in. W.C.	P0050	D=0 to 50 Pa	P0025	5B=-25 to 25 Pa	
W00R5D=01	to 0.5 in. W.C.	W0R25B=-	0.25 to 0.25 in. W.C.	P0100	D=0 to 100 Pa	P0050)B=-50 to 50 Pa	
W0001D=0 t	o 1 in. W.C.	W00R5B=-	0.5 to 0.5 in. W.C.	P0250	D=0 to 250 Pa	P0100)B=-100 to 100 Pa	
W02R5D=01	to 2.5 in. W.C.	W0001B=-	1.0 to 1.0 in. W.C.	P0500	D=0 to 500 Pa	P0250)B=-250 to 250 Pa	
W0005D=0 t	o 5 in. W.C.	W02R5B=-	2.5 to 2.5 in. W.C.	P1000	D=0 to 1000 P	a P0500)B=-500 to 500 Pa	
W0010D=0 t	o 10 in. W.C.	W0005B=-	5.0 to 5.0 in. W.C.	P2500	D=0 to 2500 P	a P1000)B=-1000 to 1000 Pa	
W0025D=0 t	o 25 in. W.C.	W0010B=-	10 to 10 in. W.C.	P5000	D=0 to 5000 P	a P2500)B=-2500 to 2500 Pa	
W0050D=0 t	o 50 in. W.C.	W0025B=-	25 to 25 in. W.C.	P1000	D=0 to 10000	Pa P5000)B=-5000 to 5000 Pa	
W0100D=0 t	to 100 in. W.C.	W0050B=-	50 to 50 in. W.C.	P2500	D=0 to 25000	Pa P1000	CB=-10000 to 10000 Pa	

* Specifications subject to change without notice. If you don't see what you need here, please contact us.

Tel: 978-264-2966 • E-mail: sales@alphainstruments.com • Web: alphainstruments.com