



The model 179 Series are low-range differential pressure transmitters. Each unit features a push-activated pressure equalization button, two Zero push button switches, a LCD, and two LED lamps. With our unique push-activated pressure equalization button, the zero calibration can be performed without disconnecting the pressure tubes. It significantly reduces time and cost for users. The 179 series has a stainless steel front panel and a stainless steel back enclosure. The pressure ranges from 20Pa to 20KPa, unidirectional or bidirectional. The output is 2-wire 4 to 20mA, fully protected against short circuiting and incorrect wiring. All units are temperature compensated. 0.8%, 0.4% and 0.25% accuracies are available. The patented stainless steel diaphragm sensor provides good corrosion resistance, excellent repeatability and long term stability.

Model 179 Specifications

Performance Data	Standard	Optional	Optional
Accuracy* (at room temp)	± 0.8%FS	± 0.4%FS	± 0.25%FS
Non-Linearity (BFSL)	± 0.77%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 (Per °F)	± 0.025%FS	± 0.020%FS	± 0.015%FS
Compensated Range	35 to 140°F (2 to 60°C)		
Maximum Line Pressure	15PSI(100kPa)		
Overpressure	15PSI(100kPa) Proof Pressure. 30PSI(200kPa) Burst Pressure		
Warm-up Time	5 seconds to meet specifications		
Position Effect	Each unit is calibrated in the vertical position. For other positions, press both "Z" buttons for zero adjustment. It is not necessary to adjust the sensitivity.		

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

Environmental Data and Physical Description

Operating Temperature	32 to 140°F (0 to 60°C)
Storage Temperature	-40 to 185°F (-40 to 85°C)
Electrical Termination	Pluggable Terminal
Pressure Fittings	3/16", 6.5mm or 8.0mm O.D. Barbed Brass for Push-on Tubing
Output Adjustment	Push buttons for Zero pressure output.
Pressure Media	Typically Air or similar non-conducting Gases
Enclosure	Stainless Steel
Weight	15.4OZ/435g
Installation	Front Panel Mounting

Applications:

- Clean Rooms and Isolation Rooms
- Draft Control and Fume Hood Control
- Furnace Air Flow Control
- Power Plant Air Flow Monitor and Control

Features

- 3-1/2 Digit LCD Display
- Incorrect Wiring Protection
- 15 PSI Over Pressure
- SS304 Flush Mounting
- RoHS Compliant
- Pressure Ranges as Low as 10Pa Only!

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Model 179 Specifications

Electrical Data (Current)

Circuit 2-Wire (+EXC, -EXC), Protected from Miswiring
 Excitation 16-32VDC (see diagram 2 for maximum loop resistance)
 Output* 4-20mA**
 Bidirectional Output at Zero 12mA as standard
 External Load 0-800 OHM

* Calibrated with a 250 OHM load and a 24VDC supply voltage

** Zero Setting: Factory set at $\pm 0.08\text{mA}$
 Span Setting: Factory set at $\pm 0.08\text{mA}$

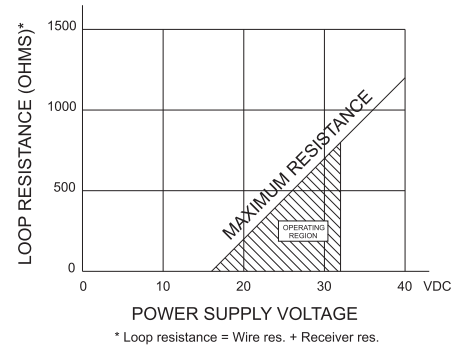


Diagram 2

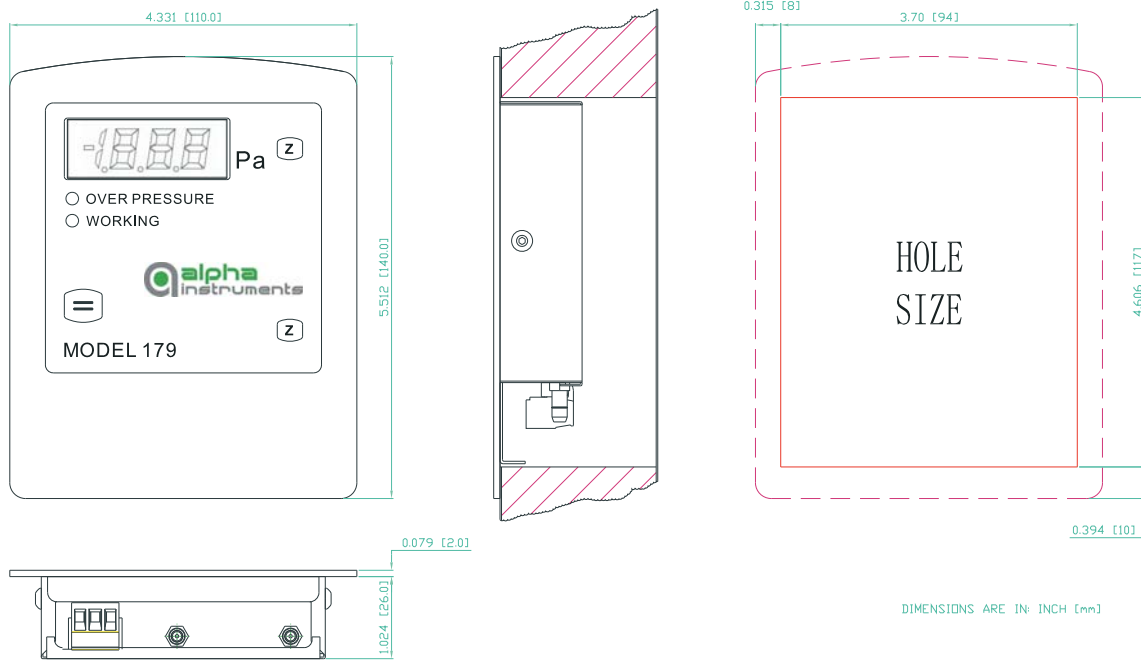


Diagram 1

Ordering Information

Code all blocks in table.

Example: 179P0100DA8NA for 179 Transmitter, 0-100Pa Range, Unidirectional, 4-20mA Output, 0.8% Accuracy, No Calibration Certificate, 3/16" Barbed Brass Pressure Fittings.

Model	Unit	Range	Pressure Type	Output	Accuracy	Certificate	Pressure Fitting
179	P: Pascal	NNNN	Differential D: Unidirectional B: Bidirectional	A: 4-20mA	8: 0.8%FS 4: 0.4%FS 2: 0.25%FS	Y (with) N (without)	A: 3/16" B: 8mm E: 6.5mm (Barbed Brass)
Pressure Unit/Range/Type							
Pascal (Unidirectional)		Pascal (Bidirectional)					
P0020D=0~20 Pa		P0010B=0~ ± 10 Pa					
P0050D=0~50 Pa		P0025B=0~ ± 25 Pa					
P0100D=0~100 Pa		P0050B=0~ ± 50 Pa					
P0200D=0~200 Pa		P0100B=0~ ± 100 Pa					
P0500D=0~500 Pa		P0250B=0~ ± 250 Pa					
P1000D=0~1000 Pa		P0500B=0~ ± 500 Pa					
P2000D=0~2000 Pa		P1000B=0~ ± 1000 Pa					
P5000D=0~5000 Pa		P2500B=0~ ± 2500 Pa					
P100CD=0~10000 Pa		P5000B=0~ ± 5000 Pa					
P200CD=0~20000 Pa		P100CB=0~ ± 10000 Pa					

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