



ACCUTRON MDP

BIDIRECTIONAL / DIFFERENTIAL
PRESSURE SENSOR

The MDP Series Pressure Transmitters incorporate a durable piezoresistive, silicon micro-machined sensing element to enable very low-pressure measurements. They offer adjustability with push button zero and span features and removable terminal blocks. The condensed sized of the MDP lends itself to panel mount or tight installations, which provides the ACI Pressure Sensor family the perfect complement. The uni-directional spans range from 0-1" to 0-20" of Water Column or 0-300 to 0-2500 Pascals and they are calibrated using NIST certified references. The standard outputs are 4-20mA, 0 to 5VDC or 0 to 10VDC.

- Removable terminal block
- Pushbutton zero function
- Compact size



FOR SERVICE CONTACT

www.accutroninstruments.com

☎ 705.682.0814



SPECIFICATIONS

Supply Voltage VDC	15 to 36 VDC (0 to 10 VDC Output) & 12 to 36 VDC (0 to 5 VDC & 4 to 20 mA Outputs)
Supply Voltage VAC	24 VAC +/-10% (all outputs)
Supply Current	23 mA minimum
Output	2-wire, linear 4 to 20 mA DC current or 3-wire, 0-5 VDC, 1-6 VDC or 0-10 VDC
Accuracy (Linearity, Hysteresis, and Repeatability)	+/- 1% FSO
Response Time	500 ms
Repeatability	+/- 0.3% FSO nominal
Operating Temperature Range	32 to 140°F (0 to 60°C)
Operating Humidity Range	10 to 95% RH, non-condensing
Compensated Temperature Range	32 to 122°F (0 to 50°C)
Thermal Effects (Shift is relative to 77°F (25°C))	+/-0.067% FSO/°F (+/-0.12% FSO/°C)
Proof Pressure	100 inWC (24.9 kPa) for ranges ≤ 2 inWC (0.5 kPa) 200 inWC (49.82 kPa) for ranges > 2 inWC (0.5 kPa)
Burst Pressure	300 inWC (74.65 kPa) for ranges ≤ 10 inWC (2.5 kPa) 500 inWC (124.42 kPa) for ranges > 10 inWC (2.5 kPa) & < 30 inWC (7.5 kPa) 800 inWC (199.072 kPa) for ranges > 30 inWC (7.5 kPa)
Media	Dry air or inert non-conductive gases
Enclosure	UL94-V0 rated, flame retardant ABS
Product Dimensions	(H) 4.05" (W) 2.10" (D) 1.08"

ORDERING

Please select options within Version 1 (1A & 1B) OR options within Version 2 (2A & 2B).

1A VERSION 1: DIFFERENTIAL PRESSURE UNIDIRECTIONAL RANGES

<input type="radio"/> ACC-MDP-1 (Range: 0-1.0" w.c.)	<input type="radio"/> ACC-MDP-10 (Range: 0-10" w.c.)	<input type="radio"/> ACC-MDP-300 (Range: 0-300 Pa)
<input type="radio"/> ACC-MDP-2 (Range: 0-2.0" w.c.)	<input type="radio"/> ACC-MDP-15 (Range: 0-15" w.c.)	<input type="radio"/> ACC-MDP-500 (Range: 0-500 Pa)
<input type="radio"/> ACC-MDP-3 (Range: 0-3.0" w.c.)	<input type="radio"/> ACC-MDP-20 (Range: 0-20" w.c.)	<input type="radio"/> ACC-MDP-1000 (Range: 0-1000 Pa)
<input type="radio"/> ACC-MDP-4 (Range: 0-4.0" w.c.)	<input type="radio"/> ACC-MDP-25 (Range: 0-25" w.c.)	<input type="radio"/> ACC-MDP-1600 (Range: 0-1600 Pa)
<input type="radio"/> ACC-MDP-5 (Range: 0-5.0" w.c.)	<input type="radio"/> ACC-MDP-30 (Range: 0-30" w.c.)	<input type="radio"/> ACC-MDP-2500 (Range: 0-2500 Pa)

1B OUTPUT

<input type="radio"/> 5 (1 to 5 VDC)
<input type="radio"/> 6 (1 to 6 VDC)
<input type="radio"/> 10 (0 to 10 VDC)
<input type="radio"/> 20 (4 to 20 mA)

2A VERSION 2: DIFFERENTIAL PRESSURE BIDIRECTIONAL RANGES

<input type="radio"/> ACC-MDP-0.5B (Range: +/- 0.5" w.c.)	<input type="radio"/> ACC-MDP-10B (Range: +/- 10" w.c.)	<input type="radio"/> ACC-MDP-300B (Range: +/- 300 Pa)
<input type="radio"/> ACC-MDP-1B (Range: +/- 1" w.c.)	<input type="radio"/> ACC-MDP-15B (Range: +/- 15" w.c.)	<input type="radio"/> ACC-MDP-500B (Range: +/- 500 Pa)
<input type="radio"/> ACC-MDP-2B (Range: +/- 2" w.c.)	<input type="radio"/> ACC-MDP-20B (Range: +/- 20" w.c.)	<input type="radio"/> ACC-MDP-1000B (Range: +/- 1000 Pa)
<input type="radio"/> ACC-MDP-3B (Range: +/- 3" w.c.)	<input type="radio"/> ACC-MDP-25B (Range: +/- 25" w.c.)	<input type="radio"/> ACC-MDP-1600B (Range: +/- 1600 Pa)
<input type="radio"/> ACC-MDP-4B (Range: +/- 4" w.c.)	<input type="radio"/> ACC-MDP-30B (Range: +/- 30" w.c.)	<input type="radio"/> ACC-MDP-2500B (Range: +/- 2500 Pa)
<input type="radio"/> ACC-MDP-5B (Range: +/- 5" w.c.)		

2B OUTPUT

<input type="radio"/> 5 (1 to 5 VDC)
<input type="radio"/> 6 (1 to 6 VDC)
<input type="radio"/> 10 (0 to 10 VDC)
<input type="radio"/> 20 (4 to 20 mA)

BUILD PART NUMBER

After completing either (1A, 1B) OR (2A, 2B) from the above table, fill in the Part Number Table below. An example part number is offered.

1A OR 2A

1B OR 2B

EXAMPLE: ACC-MDP-1-20