

The **AZC-MLP2** Series Low Differential Pressure transmitters are designed for use in OEM or high density panel mounting applications. Key installation features include an integral 35 mm DIN rail mounting foot, vertically orientated wiring and pressure connections, and a pushbutton zero function conveniently located on the front cover. The AZC-MLP2 offers two options for DIN Rail mounting; rear and side mount. The rear DIN rail mount is integrated into the enclosure. The side mount adapter is included with the package, and can easily be attached. The side mount offers a much thinner profile for higher density panels. The AZC-MLP2 incorporates a high accuracy, piezoresistive, silicon sensing element which senses differential pressure and provides a linear 4 to 20 mA or DC voltage output equal to the specified pressure range. This technology reduces warmup shift while also reducing the effect of package stress for increased long term stability. In addition, the unit contains a de-pluggable terminal block that can be removed for ease of installation. This unit must be ordered with a single uni or bi-directional pressure range and output signal from +/- 0.1" of water column to a maximum pressure of +/- 40" of water column depending on your application. All AZC-MLP2 Series pressure transmitters are calibrated using NIST Certified equipment. Optional 3 or 5 point NIST Certificates are available and must be specified when placing your order.



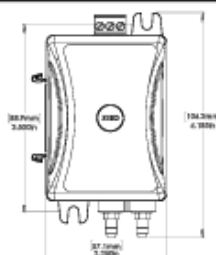
PRODUCT SPECIFICATIONS

Supply Voltage:	4-20 mA Output: 16-36 VDC (250 Ohm Load max.) / 21-36 VDC (500 Ohm Load max.) / 24VAC(+/-10%) 50/60 Hz 0-5 VDC Output: 12-36 VDC / 24 VAC (+/- 10%) 50/60 Hz 0-10 VDC Output: 16-36 VDC / 24 VAC (+/- 10%) 50/60 Hz
Supply Current mA (Power Consumption):	4-20 mA Output: 23 mA minimum (0.83 VA) VDC Output Signals: 5 mA maximum (0.18 VA)
Output Signals:	4-20 mA: 2-wire Loop Powered (output limited to 20.5 mA maximum) 4-20 mA: 3-Wire, VAC Powered (output limited to 20.5 mA maximum) 0-5 VDC or 0-10 VDC: 3-Wire, VAC or VDC Powered (output limited to 5.25 & 10.25 VDC)
Pressure Ranges:	See Ordering Information on back of Product Data Sheet (Must Specify when ordering)
Accuracy¹:	+/- 0.5% FSO (Default) +/- 0.25% (Optional) for all ranges except 0.1" and +/- 0.1" wc
Sensor Compensated Temperature Range:	32 to 122°F (0 to 50°C)
Thermal Effects²:	+/- 0.056% FSO/°F (+/- 0.10% FSO/°C)
Warm Up Time:	15 Minutes
Response Time (T95):	4 seconds
Output Update Rate:	500 ms
Zero Function:	Pushbutton Zero Function (Recommended after 15 minutes warm up)
Proof Pressure Burst Pressure:	Ranges < 1" wc (248.84 pa): Proof: 270" wc (67.2 kPa) Burst: 415" wc (103.3 kPa) Ranges > 1" wc (0.2488 kPa) to < 10" wc (2.488 kPa): Proof: 350" wc (87.12 kPa) Burst: 550" wc (136.9 kPa) Ranges > 10" wc (2.488 kPa) to < 40" wc (9953.6 kPa): Proof: 562" wc (140 kPa) Burst: 1004.7" wc (250 kPa)
Operating Temperature Humidity:	32 to 185°F (0 to 85°C) 10 to 95% RH, non-condensing
Storage Temperature Humidity:	-40 to 176°F (-40 to 80°C) 10 to 95% RH, non-condensing
Media Types:	Intended for use with non-corrosive, non-ionic gases, such as air and other dry gases
Enclosure Material Flammability Rating:	Polycarbonate UL 94 V-0
Enclosure Temperature Rating:	-40 to 248°F (-40 to 120°C)
DIN Rail Mounting:	35 mm (U.S. Patent No. 7,416,421)
Wiring Connections Wire Size:	3 Position de-pluggable screw terminal block 14 AWG (1.628 mm ²) to 24 AWG (0.5105 mm ²)
Terminal Block Torque Rating:	4.43 to 5.31 in-lbs. (0.5 to 0.6 Nm)
Pressure Fitting Material:	Brass
Tubing Size Accepted:	0.250" (6.35 mm) O.D. x 0.170" (4.318 mm) I.D. Push-On Flexible Poly Tubing
NIST Certification:	3 Point NIST Test Points: 10%, 50%, & 90% of FSO 5 Point NIST Test Points: 10%, 30%, 50%, 70%, and 90% of FSO
Product Dimensions (L x W x D):	4.210" (106.94 mm) x 2.085" (52.96 mm) x 1.340" (34.04 mm)
Product Weight:	0.17 lbs. (0.078 kg)
Approvals:	CE, RoHS2, WEEE, Reach, UKCA

Note¹: Accuracy includes Hysteresis, Linearity, and Repeatability at 71°F (21.5°C) Typical | **Note²:** Shift is relative to 77°F (25°C)



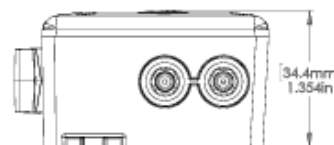
DIMENSIONAL DRAWING



Front View



Side View



Bottom View

CUSTOM ORDERING

Model # Example:

A/

MLP2

D25

W

B

B

A

SP

MODEL

A. Sensor Series No Selection Required

A/

A/

B. Pressure Series No Selection Required

MLP2 = Miniature Low Pressure Transmitter

MLP2

C. Pressure Ranges Select One (1)

D10** = 0.10

2D5 = 2.50

015 = 15.00

050 = 50*

1K6 = 1,600*

D25 = 0.25

003 = 3.00

020 = 20.00

100 = 100*

2K5 = 2,500*

D50 = 0.50

004 = 4.00

025 = 25.00¹

300 = 300*

3K2 = 3,200*

Note*: Shaded Pressure Ranges are for Pascal Units Only)

001 = 1.00

005 = 5.00

030 = 30.00

500 = 500*

5K0 = 5,000*

002 = 2.00

010 = 10.00

040 = 40.00

1K0 = 1,000*

10K = 10,000*

D. Units of Pressure Select One (1)

W = Inches of Water Column | P = Pascals

E. Bi/Uni Directional Range Select One (1)

U = Uni-Directional (ie. 0 to 1" wc) | B = Bi-Directional (ie. -1 to +1" wc)

F. Accuracy Select One (1)

A = +/- 0.5% FSO | B = +/- 0.25%

G. Output Signal Select One (1)

A = 4 to 20 mA | B = 0 to 5 VDC | C = 0 to 10 VDC

H. NIST Certification Select One (1)

0P = No NIST Certificate | 3P = 3 Point NIST Certificate | 5P = 5 Point NIST Certificate

Note*: Pascal Ranges Only | **Note¹:** The "025" Range can be ordered in either Inches of Water Column (W) or Pascal (P) | **Note**:** 0.10" WC and 025 Pa accuracy is +/- 0.50% only (Use "W" for Accuracy Selection)

ACCESSORIES ORDERING | PITOT TUBES

Model # Example:

A/PT5.2

-OR-

130141

Model #	Item #	Description	Insertion Length	Number of Sensing Points
PT 3"	130140	3.0" Pitot Tube with Foam Gasket	3.0" (7.6 cm)	1 Set
PT 5.2"	130141	5.2" Pitot Tube with Foam Gasket	5.2" (13.2 cm)	2 Sets
PT 7.5"	130142	7.5" Pitot Tube with Foam Gasket	7.5" (19.1 cm)	3 Sets
PT 9.7"	130143	9.7" Pitot Tube with Foam Gasket	9.7" (24.6 cm)	4 Sets
SPT - 3.5"	102957	3.5" Aluminum Duct Static (Flat Tip) Pitot Tube	3.5" (88.9 mm)	1 Point
SPT - 8.0"	108976	8.0" Aluminum Duct Static (Flat Tip) Pitot Tube	8.0" (203.2 mm)	1 Point
VPT	103010	4.0" Aluminum Velocity (Pointed Tip) Pitot Tube	4" (101.6 mm)	1 Point
VPT - 8"	125008	8.0" Aluminum Velocity (Pointed Tip) Pitot Tube	8" (203.2 mm)	1 Point

ACCESSORIES ORDERING | PICK UP PORTS

Model # Example:

A/SP-PUP

-OR-

125585

Model #	Item #	Description	Color
A/SP-PUP	125585	Pickup Port, Wall Mounted Stainless Plate	Brushed Stainless Steel
A/R-PUP	125584	Pickup Port, Wall Mounted Plastic Enclosure	Beige
A/R2-PUP	132711	Pickup Port, Wall Mounted Plastic Enclosure	White
A/O-PUP-H	132892	Pickup Port, Horizontal Mount, Outdoor Weatherproof Euro Enclosure	Light Gray
A/O-PUP-V	132891	Pickup Port, Vertical Mount, Outdoor Weatherproof Euro Enclosure	Light Gray