

PRESSURE | MINIATURE LOW PRESSURE | MLP2



MIP2 Miniature Low Pressure Transmitter

The 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 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 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 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.

Applications: Building and Duct Static Pressure, Filter Monitoring, Air Flow Measurement, Process Control, Roof Top Units, Air Handlers, Clean Rooms, Isolation Rooms, Data Centers

The MLP2 Series Low Differential Pressure Transmitters are covered by ACI's Five (5) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's web site, <u>workaci.com</u>.

4-20 mA: 2-wire Loop Powered (output limited to 20.5 mA maximum)0utput Signals: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" wcSensor 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 MinutesResponse Time (T95):4 secondsOutput Update Rate:500 msZero Function:Pushbutton Zero Function (Recommended after 15 minutes warm up)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 < 40" wc (9953.6 kPa): Proof: 350" wc (37.12 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: 1004.3 wc (250 kPa)	PRODUCT SPECIFICATIONS				
Supply Voltage: 0-5 VDC Output: 12-36 VDC / 24 VAC (+/- 10%) 50/60 Hz Olio 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) Output Signals: 4-20 mA: 2-wire Loop Powered (output limited to 20.5 mA maximum) Output Signals: 4-20 mA: 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) Accuracy ¹ : +/- 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) Warm Up Time: 15 Minutes Response Time (T95): 4 seconds Output Update Rate: 500 ms Zero Function: Pusibutton Zero Function (Recommended after 15 minutes warm up) Ranges < 1" wc (248.84 pa): Proof: 270" wc (67.2 kPa) Burst: 415" wc (103.3 kPa) Ranges > 10" wc (2.488 kPa) to < 40" wc (9953.6 kPa): Proof: 520" wc (140 kPa) Burst: 500 wc (37.12 kPa) Burst: 104.3 wc (250 kPa) Operating Temperature Humidity: 32 to 185+f (10 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 Storage Temperature Humidit		4-20 mA Output: 16-36 VDC (250 Ohm Load max.) / 21-36 VDC			
0-5 VDC Output: 12-36 VDC / 24 VAC (++ 10%) 50/60 Hz Supply Current mA (Power Consumption): 4-20 mA Output: 16-36 VDC / 24 VAC (++ 10%) 50/60 Hz Supply Current mA (Power Consumption): 4-20 mA: 2-wire Loop Powered (output limited to 20.5 mA maximum) Output Signals: 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 20.5 mA maximum) 0-5 VDC Or 0-10 VDC: 3-Wire, VAC Or VDC Powered (output limited to 5.2.5 & 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: 12 to 122+F (0 to 50×C) Warm Up Time: 15 Minutes Response Time (1795): 4 seconds Output Update Rate: 500 ms Zero Function: Pushbutton Zero Function (Recommended after 15 minutes warm up) Ranges > 1" wc (02488 kPa) to < 40" wc (67.2 kPa) Burst: 415" wc (103.3 kPa) Ranges > 1" wc (02488 kPa) to < 40" wc (2953.6 kPa): Proof: 350" wc (67.12 kPa) Burst: 551" wc (136.8 kPa)	Supply Voltage	(500 Ohm Load max) / 24VAC(+/-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) Output Signals: 4-20 mA: 3-Wire, VAC Powered (output limited to 20.5 mA maximum) OF 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 Ranges: 21 to 122°F (0 to 50°C) Warm Up Time: 15 Minutes Response Time (195): 4 seconds Output Update Rate: 500 ms Zero Function: Pushbutton Zero Function (Recommended after 15 minutes warm up) Ranges < 1" wc (248.84 pa): Proof: 270" wc (67.2 kPa) Burst: 415" wc (103.3 kPa)	Supply voltage:	0-5 VDC Output: 12-36 VDC / 24 VAC (+/- 10%) 50/60 Hz			
4-20 mA: 2-wire Loop Powered (output limited to 20.5 mA maximum) 0-tput Signals: 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) Accuracy': +/- 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 Effects ² : +/- 0.056% FSO/PC (+/- 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) Ranges > 1" wc (0.2488 kPa) to < 10" wc (2.488 kPa): Proof: 550" wc (87.12 kPa) Burst: 155"		0-10 VDC Output: 16-36 VDC / 24 VAC (+/- 10%) 50/60 Hz			
Output Signals: 4-20 mA: 3-Wire, VAC Powered (output limited to 20.5 mA maximum) 0-5 VDC or 010 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) Accuracy': +/- 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 55°C) Thermal Effects ² : +/- 0.05% FSO (PF (+/- 0.10% FSO/PC) 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) Ranges < 1" wc (0.2488 kPa) to < 10" wc (2.488 kPa): Proof: 350" wc (87.12 kPa) Burst: 550 wc (136 SP Ra)	Supply Current mA (Power Consumption):	4-20 mA Output: 23 mA minimum (0.83 VA) VDC Output Signals: 5 mA maximum (0.18 VA)			
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Thermal Effects ² :+/- 0.056% FSO/°F (+/- 0.10% FSO/°C)Warm Up Time:15 MinutesResponse Time (T95):4 secondsOutput Update Rate:500 msZero Function:Pushbutton Zero Function (Recommended after 15 minutes warm up)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: 50" wc (136.9 kPa)Proof Pressure Burst Pressure:Narges > 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-condensingStorage Temperature Humidity:-40 to 176°F (-40 to 80°C) 10 to 95% RH, non-condensingMedia Types:Intended for use with non-corrosive, non-ionic gases, such as air and other dry gasesEnclosure 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 mm2) to 24 AWG (0.5105 mm2)Terminal Block Torque Rating:-4.43 to 5.31 in-lbs. (0.5 to 0.6 Nm)Pressure Fitting Material:BrassTubing Size Accepted:0.250" (6.35 mm) O.D. x 0.170" (4.318 mm) I.D. Push-On Flexible Poly TubingNIST Certification:3 Point NIST Test Points: 10%, 30%, 50%, 70%, and 90% of FSOProduct Weight:0.17 lbs. (0.078 kg)	Accuracy ¹ :	+/- 0.5% FSO (Default) +/- 0.25% (Optional) for all ranges except 0.1" and +/- 0.1" wc			
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Zero Function:Pushbutton Zero Function (Recommended after 15 minutes warm up)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-condensingStorage Temperature Humidity:-40 to 176°F (-40 to 80°C) 10 to 95% RH, non-condensingMedia Types:Intended for use with non-corrosive, non-ionic gases, such as air and other dry gasesEnclosure Material Flammability Rating:Polycarbonate UL 94 V-0Enclosure 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 mm2) to 24 AWG (0.5105 mm2)Terminal Block Torque Rating:-4.33 to 5.31 in-lbs. (0.5 to 0.6 Nm)Pressure Fitting Material:BrassTubing Size Accepted:0.250" (6.35 mm) O.D. x 0.170" (4.318 mm) I.D. Push-On Flexible Poly TubingNIST Certification:3 Point NIST Test Points: 10%, 50%, 8 90% of FSO 5 Point NIST Test Points: 10%, 50%, 70%, and 90% of FSOProduct Dimensions (L x W x D):4.210" (106.94 mm) x 2.085" (52.96 mm) x 1.340" (34.04 mm) 0.17 lbs. (0.078 kg)	Response Time (T95):	4 seconds			
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Proof Pressure Burst Pressure: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: 1004.3 wc (250 kPa)Operating Temperature Humidity:32 to 185°F (0 to 85°C) 10 to 95% RH, non-condensingStorage Temperature Humidity:-40 to 176°F (-40 to 80°C) 10 to 95% RH, non-condensingMedia Types:Intended for use with non-corrosive, non-ionic gases, such as air and other dry gasesEnclosure Material Flammability Rating:Polycarbonate UL 94 V-0Enclosure 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 mm2) to 24 AWG (0.5105 mm2)Terminal Block Torque Rating:-4.3 to 5.31 in-lbs. (0.5 to 0.6 Nm)Pressure Fitting Material:BrassTubing Size Accepted:0.250" (6.35 mm) O.D. x 0.170" (4.318 mm) I.D. Push-On Flexible Poly TubingNIST Certification:3 Point NIST Test Points: 10%, 50%, & 90% of FSOProduct 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)	Zero Function:	Pushbutton Zero Function (Recommended after 15 minutes warm up)			
Operating Temperature Humidity:32 to 185°F (0 to 85°C) 10 to 95% RH, non-condensingStorage Temperature Humidity:-40 to 176°F (-40 to 80°C) 10 to 95% RH, non-condensingMedia Types:Intended for use with non-corrosive, non-ionic gases, such as air and other dry gasesEnclosure Material Flammability Rating:Polycarbonate UL 94 V-0Enclosure 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 mm2) to 24 AWG (0.5105 mm2)Terminal Block Torque Rating:4.43 to 5.31 in-lbs. (0.5 to 0.6 Nm)Pressure Fitting Material:BrassTubing Size Accepted:0.250″ (6.35 mm) O.D. x 0.170″ (4.318 mm) I.D. Push-On Flexible Poly TubingNIST Certification:3 Point NIST Test Points: 10%, 50%, & 90% of FSOProduct 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)	Proof Pressure Burst Pressure:	Ranges > 1" wc (0.2488 kPa) to < 10" wc (2.488 kPa): Proof: 350" wc (87.12 kPa) Burst: 550 wc (136.9 kPa) wc (136.9 kPa) Ranges > 10" wc (2.488 kPa) to < 40" wc (9953.6 kPa): Proof: 562" wc (140 kPa) Burst: 1004.7			
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3 Point NIST Test Points: 10%, 50%, & 90% of FSO Stream 5 Point NIST Test Points: 10%, 30%, 50%, 70%, and 90% of FSO 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)					
NIST Certification: 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)					
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)	NIST Certification:				
Product Weight: 0.17 lbs. (0.078 kg)	Product Dimensions (L x W x D):				
		······································			

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

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PRESSURE | MINIATURE LOW PRESSURE | MLP2

Automation Components, Inc.

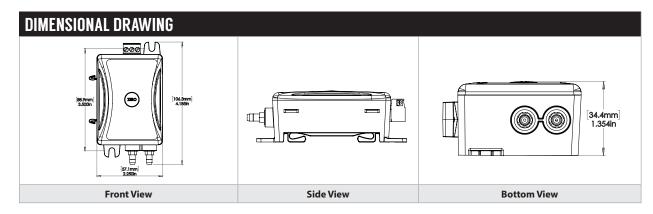


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CUSTOM ORDERING		Model # Examp	le: A/ MLP2 D A. B.	25 W B C. D. E.	B A 5P F. G. H.	MODEL #
A. Sensor Series No Selection Required	A/				A/	
B. Pressure Series No Selection Required	MLP2 = Miniature Low Pressure Transmitter			MLP2		
	D10** = 0.10	2D5 = 2.50	015 = 15.00	050 = 50*	1K6 = 1,600*	
C. Pressure Ranges Select One (1)	D25 = 0.25	003 = 3.00	020 = 20.00	100 = 100*	2K5 = 2,500*	
Note*: Shaded Pressure Ranges are for	D50 = 0.50	004 = 4.00	025 = 25.00 ¹	300 = 300*	3K2 = 3,200*	
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)	Dne (1) W = Inches of Water Column P = Pascals					
E. Bi/Uni Directional Range Select One (1) $\mathbf{U} = \text{Uni-Directional}$ (ie. 0 to 1" wc) $\mathbf{B} = \text{Bi-Directional}$ (ie1 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) OP = 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 "A" for Accuracy Selection)

ACCESSORIES ORDERING PITOT TUBES Model # Example: A/PT 5.2 -OR- 130				Model # Example: A/PT 5.2 -OR- 130141
Model #	ltem #	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



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ACCESSORIES ORDERING PICK UP PORTS Model # Example: A/SP-PUP - OR- 122505			
Model #	ltem #	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

ACCESSORIES ORDERING TUBING KIT			
Model #	ltem #	Description	Color
A/10'TUBE	126606	10' Medical Tubing Kit, 1/8" ID x 1/4" OD	Clear
A/20'TUBE	132226	20' Medical Tubing Kit, 1/8" ID x 1/4" OD	Clear
A/100'TUBE	136018	100' Medical Tubing Kit, 1/8" ID x 1/4" OD	Clear

