



DLP (CONFIGURABLE OPTIONS)

Differential Low Pressure (Uni/Bi-Directional)

The DLP Series is based on a piezoresistive, silicon sensing element which senses Differential Pressure and provides an analog output. The hinged cover on the DLP can be easily opened using the integrated locking tab on the side of the enclosure. This allows for easy access to the zero function and field selectable ranges and outputs. The DLP Series also includes an optional, five digit LCD for installation and monitoring support. Field selectable analog outputs include 0-5 and 0-10 VDC, or 4-20 mA which correlate to a uni or bi-directional pressure range from 0-0.1" up to 0-40" of water column, depending on your model selection. Each unit must be ordered with the specific pressure range needed to meet desired application requirements. Options include a Pitot Tube or Din Rail Clip.

Applications: Building and Duct Static Pressure, Filter Monitoring, Air Flow Measurement, and Process Control

The DLP Series is 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, workaci.com.

PRODUCT SPECIFICATIONS

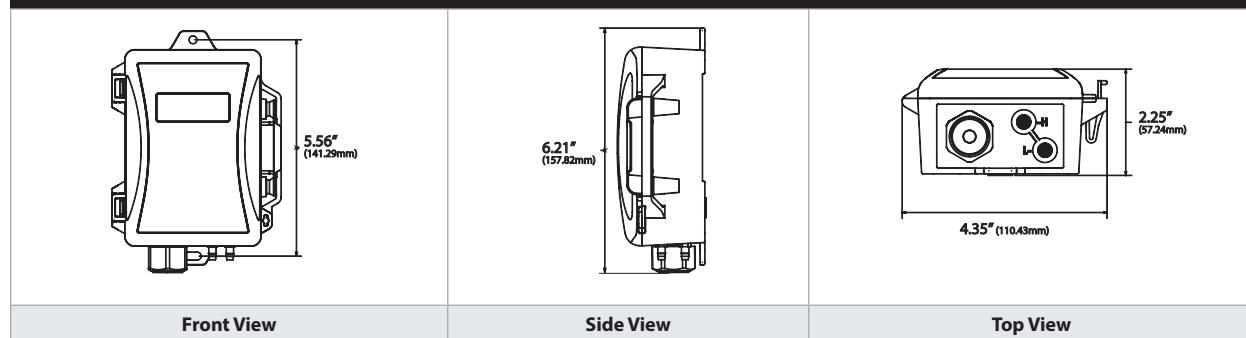
Supply Voltage:	4-20 mA Output: 16-36 VDC (250 Ohm Load max.) / 22-36 VDC (500 Ohm Load max) / 24 VAC (+/-10%) 50/60 Hz
Supply Current:	0-5 VDC / 0-10 VDC Output: 15-36 VDC into > 5K Ohm Load / 24 VAC (+/- 10%), 50/60 Hz
Output Signals:	4-20 mA Output: 24 mA (0.83 VA) 0-5 VDC / 0-10 VDC Outputs: 6 mA maximum (0.18 VA)
Response Time (0-100% FSO):	4-20 mA: 2-wire Loop Powered (output limited to 20.5 mA maximum)
Output Update Rate:	4-20 mA: 3-Wire, VAC Powered (output limited to 20.5 mA maximum)
Pressure Range:	0-5 VDC or 0-10 VDC: 3-Wire, VAC or VDC Powered (output limited to 5.25 & 10.25 VDC)
Accuracy¹:	Specify: +/-0.25% FSO (except for 0.1"(25Pa) range) +/-0.5% FSO
Zero Function:	Pushbutton Zero Function
Thermal Effects²:	$\pm 0.067\% \text{ FSO} / ^\circ\text{F}$ (0.12% FSO / $^\circ\text{C}$)
Proof Pressure:	$\leq 1'' \text{ wc (250 Pa)}$: 270 inWC (67.2 kPa) for 1 inWC (249.8 Pa) range
	$\geq 1'' \text{ wc (250 Pa)} \leq 10'' \text{ wc (2500 Pa)}$: 350 inWC (87.12 kPa) for 10 inWC (2490.8 Pa) range
	$\geq 10'' \text{ (2500 Pa)} \leq 40'' \text{ wc (10K Pa)}$: 562 inWC (140 kPa) for 40 inWC (9963.6 Pa) range
	$\leq 1'' \text{ wc (250 Pa)}$: 415 inWC (103.3 kPa) for 1 inWC (249.8 Pa) range
Burst Pressure:	$\geq 1'' \text{ wc (250 Pa)} \leq 10'' \text{ wc (2500 Pa)}$: 550 inWC (136.9 kPa) for 10 inWC (2490.8 Pa) range
	$\geq 10'' \text{ *2500 Pa} \leq 40'' \text{ wc (10K Pa)}$: 1004.7 inWC (250 kPa) for 40 inWC (9963.6 Pa) range
Operating Temperature Range:	-4 to 185°F (-20 to 85°C)
Compensated Temperature Range:	32 to 122°F (0 to 50°C)
Storage Temperature Range:	-22 to 185°F (-30 to 85°C)
Operating Humidity:	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:	Flame Retardant Polycarbonate; UL94-5VA
Wiring Connections:	Finger Pushbutton (Spring) Terminal Blocks; accepts 16-24 AWG wires
Conduit Knockouts:	Watertight Cordgrip Installed (1/2" NPT Conduit fittings accepted when Cordgrip removed)
Pressure Fitting Material:	Nickel Plated Brass
Tubing Size Accepted:	1/4" O.D. x 0.170" I.D. Poly Tubing
NIST Certification:	3 Point NIST Test Points: 10%, 50%, & 90% FSO
Approvals:	5 Point NIST Test Points: 10%, 30%, 50%, 70%, & 90% FSO
Product Weight (No Pitot Tube / Din Rail):	Non-LCD Display Version: 0.53 lbs (0.240 kg) LCD Display Version: 0.58 lbs (0.263 kg)
Product Weight (With Pitot Tube & Din Rail):	Non-LCD Display Version: 0.80 lbs (0.363 kg) LCD Display Version: 0.85 lbs (0.385 kg)

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





DIMENSIONAL DRAWING



CUSTOM ORDERING												MODEL #
Model # Example: A/DLP -OR- 001 002 003 004 005 006 007 008 009 010 011 012												
A. Sensor Series No Selection Required		A/DLP										
		D10 (0.10)***	2D5 (2.5)	015 (15)	050 (50)*	500 (500)*	2K5 (2,500)*					A/DLP
		D25 (0.25)	003 (3)	020 (20)	100 (100)*	750 (750)*	3K2 (3,200)*					
		D50 (0.50)	004 (4)	025 (25)**	125 (125)*	1K0 (1,000)*	5K0 (5,000)*					
		001 (1)	005 (5)	030 (30)	250 (250)*	1K2 (1,250)*	7K5 (7,500)*					
		002 (2)	010 (10)	040 (40)	300 (300)*	1K6 (1,600)*	10K (10,000)*					
		C. Units Select One (1)										
		W = Water Column P = Pascal										
		D. Bi/Uni Directional Select One (1)										
		U = Uni-Directional (i.e. 0 to 1" wc) B = Bi-Directional (i.e. -1 to +1" wc)										
		E. Display Select One (1)										
		N = No LCD Display D = With LCD Display										
		F. Accuracy Select One (1)										
		A = +/- 0.5% B = +/- 0.25%										
		G. Pitot Tube/Din Rail Select One (1)										
		0 = No Pitot Tube/Din Rail 1 = Pitot Tube 2 = Din Rail 3 = Pitot Tube & Din Rail										
		H. Analog Output Select One (1)										
		A = 4 to 20 mA B = 0-5 VDC C = 0-10 VDC										
		I. NIST Select One (1)										
		0P = None 3P = 3 Point NIST 5P = 5 Point NIST										
		J. Enclosure No Selection Required										
		S = Standard Enclosure										

Note*: Pascal Ranges Only | Note**: "025" range is available in either wc or Pa ranges | 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- 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

