DLP (+/- 0.25% Accuracy)

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 specific 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, Flter Monitoring, Air Fow Measurement, and Process Control
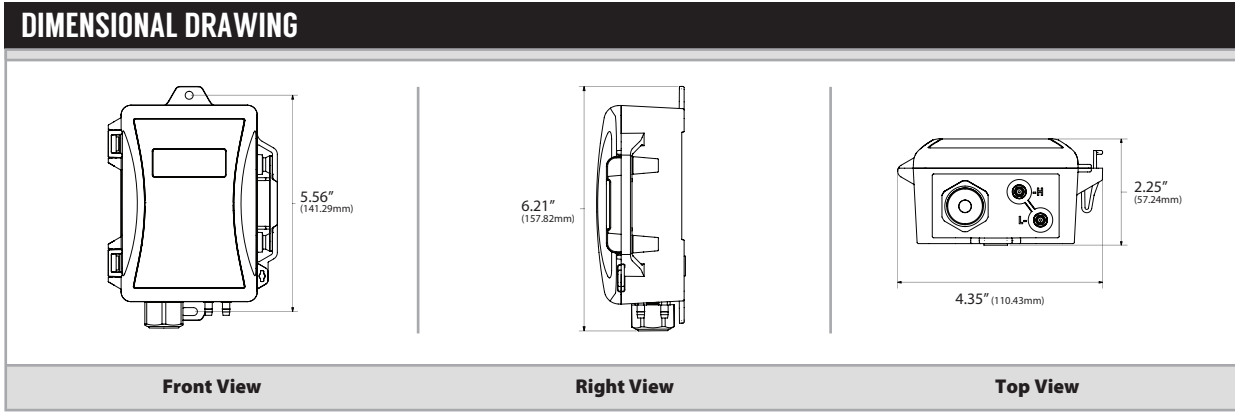
The DLP Series is covered by ACI's Five (5) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website, www.workaci.com.

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
	0-5 VDC / 0-10 VDC Output: 16-36 VDC / 24 VAC (+/- 10%) 50/60 Hz
Supply Current:	4-20 mA Output: 24 mA minimum (0.83 VA) │ 0-5 VDC / 0-10 VDC Output: 6 mA maximum (0.18 VA)
Output Signals:	**Current Output:** 4-20 mA, 2-Wire Loop Powered (Default); Current limited to 21.5 mA maximum
	Voltage Signals: 0-5 VDC / 0-10 VDC Field Selectable, 3-Wire; Output limited @ 5.25 & 10.5 VDC
Response Time (0-100% FSO):	4 seconds
Output Update Rate:	0.5 second intervals
Pressure Ranges:	Specify Single Range (See "Ordering" on Reverse Side)
Accuracy [1]:	**+/- 0.25" to 40" wc:** +/-0.25% FSO │ **+/- 0.1" (25 Pa):** +/-0.50% FSO
Zero Function:	Pushbutton Zero Function
Thermal Effects [2]:	+/- 0.067% FSO / °F (0.12% FSO / °C)
Proof Pressure:	**≤ 1" wc (250 Pa):** 270 inWC (67.2 kPa) for 1 inWC (249.8 Pa) range
	≥ 1" wc (250 Pa) ≤ 10" wc (2500 Pa): 350 inWC (87.12 kPa) for 10 inWC (2490.8 Pa) range
	≥ 10" (2500 Pa) ≤ 40" wc (10K Pa): 562 inWC (140 kPa) for 40 inWC (9963.6 Pa) range
Burst Pressure:	**≤ 1" wc (250 Pa):** 415 inWC (103.3 kPa) for 1 inWC (249.8 Pa) range
	≥ 1" wc (250 Pa) ≤ 10" wc (2500 Pa): 550 inWC (136.9 kPa) for 10 inWC (2490.8 Pa) range
	≥ 10" *2500 Pa) ≤ 40" 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 Range:	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; UL94-5V
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 or Stainless Steel
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
	5 Point NIST Test Points: 10%, 30%, 50%, 70%, & 90% FSO
Approvals:	CE, Reach, RoHS2, WEEE
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)

Note[1]: Accuracy includes linearity, hysteresis & repeatability @ 71°F (21.5°C) │ **Note[2]:** Shift is relative to 71°F (21.5°C)

Automation Components, Inc.

DIMENSIONAL DRAWING

5.56" (141.29mm)

6.21" (157.82mm)

2.25" (57.24mm)

4.35" (110.43mm)

| Front View | Right View | Top View |

CUSTOM ORDERING

Model # Example:

| A/DLP | 001 | W | B | D | B | 1 | A | 3P | S |
| A. | B. | C. | D. | E. | F. | G. | H. | I. | J. |

		MODEL #
A. Sensor Series No Selection Required	A/DLP ➡	A/DLP
B. Differential Pressure Range Select One (1)	**D10** (0.10)*** **2D5** (2.5) **015** (15) **050** (50)* **500** (500)* **2K5** (2,500)* **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 (ie. 0 to 1" wc)	**B** = Bi-Directional (ie. -1 to +1" wc)	
E. Display Select One (1)	**N** = No LCD Display	**D** = With LCD Display	
F. Accuracy No Selection Required	**B** = +/- 0.25% ➡	B
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 ➡	S

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

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

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RoHS COMPLIANT 2002/95/EC