PRESSURE | DIFFERENTIAL LOW PRESSURE | DLP



DLP (+/- 0.50% 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 uni or bi-directional pressure range from 0-0.1" up to 0-40" of water column, depending on your model selection. Each unit has up to 8 field selectable, uni or bi-directional ranges. 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 website, www.workaci.com.

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: 15-36 VDC into > 5K Ohm Load / 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 V		
Output Signals:	Current Output: 4-20 mA, 2-Wire Loop Powered (Default); Current limited to 21.5 mA maximun		
	Voltage Signals: 0-5 VDC / 0-10 VDC Field Selectable, 3-Wire; Output limited @ 5.25 & 10.5 VD		
Response Time (0-100% FSO):	4 seconds		
Output Update Rate:	0.5 second intervals		
Pressure Ranges:	See Product Ordering Grid (next page); Field Selectable Uni and Bi-Directional Ranges		
Accuracy ¹:	+/- 0.50% FSO		
Zero Function:	Pushbutton Zero Function		
Thermal Effects ² :	+/- 0.067% FSO / °F (0.12% FSO / °C)		
Proof Pressure Burst Pressure:	A/DLP-001: Proof: 270 inWC (67.2 kPa) Burst: 415 inWC (103.3 kPa) for 1 inWC (249.8 Pa)		
	A/DLP-010: Proof: 350 inWC (87.12 kPa) Burst: 550 inWC (136.9 kPa) for 10 inWC (2490.8 P		
	A/DLP-040: Proof: 562 inWC (140 kPa) Burst: 1004.7 inWC (250 kPa) for 40 inWC (9963.6 Pa		
Operating Temperature Range:	-4 to 185°F (-20 to 85°C)		
Compensated Temperature Range:	-4 to 185°F (-20 to 85°C)		
Compensated Temperature Range: Storage Temperature Range:	-4 to 185°F (-20 to 85°C) 32 to 122°F (0 to 50°C)		
Compensated Temperature Range: Storage Temperature Range: Operating Humidity Range:	-4 to 185°F (-20 to 85°C) 32 to 122°F (0 to 50°C) -22 to 185°F (-30 to 85°C)		
Compensated Temperature Range: Storage Temperature Range: Operating Humidity Range: Media Types:	-4 to 185°F (-20 to 85°C) 32 to 122°F (0 to 50°C) -22 to 185°F (-30 to 85°C) 10 to 95% RH, non-condensing		
Compensated Temperature Range: Storage Temperature Range: Operating Humidity Range: Media Types: Enclosure Material Flammability Rating:	-4 to 185°F (-20 to 85°C) 32 to 122°F (0 to 50°C) -22 to 185°F (-30 to 85°C) 10 to 95% RH, non-condensing Intended for use with non-corrosive, non-ionic gases, such as air and other dry gases		
Compensated Temperature Range: Storage Temperature Range: Operating Humidity Range: Media Types: Enclosure Material Flammability Rating: Wiring Connections:	-4 to 185°F (-20 to 85°C) 32 to 122°F (0 to 50°C) -22 to 185°F (-30 to 85°C) 10 to 95% RH, non-condensing Intended for use with non-corrosive, non-ionic gases, such as air and other dry gases Flame Retardant Polycarbonate; UL94-5VA		
Compensated Temperature Range: Storage Temperature Range: Operating Humidity Range: Media Types: Enclosure Material Flammability Rating: Wiring Connections: Conduit Knockouts:	-4 to 185°F (-20 to 85°C) 32 to 122°F (0 to 50°C) -22 to 185°F (-30 to 85°C) 10 to 95% RH, non-condensing Intended for use with non-corrosive, non-ionic gases, such as air and other dry gases Flame Retardant Polycarbonate; UL94-5VA Finger Pushbutton (Spring) Terminal Blocks; accepts 16-24 AWG wires		
Compensated Temperature Range: Storage Temperature Range: Operating Humidity Range: Media Types: Enclosure Material Flammability Rating: Wiring Connections: Conduit Knockouts: Pressure Fitting Material:	-4 to 185°F (-20 to 85°C) 32 to 122°F (0 to 50°C) -22 to 185°F (-30 to 85°C) 10 to 95% RH, non-condensing Intended for use with non-corrosive, non-ionic gases, such as air and other dry gases Flame Retardant Polycarbonate; UL94-5VA Finger Pushbutton (Spring) Terminal Blocks; accepts 16-24 AWG wires Watertight Cordgrip Installed (1/2" NPT Conduit fittings accepted when Cordgrip removed)		
Compensated Temperature Range: Storage Temperature Range: Operating Humidity Range: Media Types: Enclosure Material Flammability Rating: Wiring Connections: Conduit Knockouts: Pressure Fitting Material: Tubing Size Accepted:	32 to 122°F (0 to 50°C) -22 to 185°F (-30 to 85°C) 10 to 95% RH, non-condensing Intended for use with non-corrosive, non-ionic gases, such as air and other dry gases Flame Retardant Polycarbonate; UL94-5VA Finger Pushbutton (Spring) Terminal Blocks; accepts 16-24 AWG wires Watertight Cordgrip Installed (1/2" NPT Conduit fittings accepted when Cordgrip removed) Nickel Plated Brass or Stainless Steel		
Operating Temperature Range: Compensated Temperature Range: Storage Temperature Range: Operating Humidity Range: Media Types: Enclosure Material Flammability Rating: Wiring Connections: Conduit Knockouts: Pressure Fitting Material: Tubing Size Accepted: Approvals: Product Weight (No Pitot Tube / Din Rail):	-4 to 185°F (-20 to 85°C) 32 to 122°F (0 to 50°C) -22 to 185°F (-30 to 85°C) 10 to 95% RH, non-condensing Intended for use with non-corrosive, non-ionic gases, such as air and other dry gases Flame Retardant Polycarbonate; UL94-5VA Finger Pushbutton (Spring) Terminal Blocks; accepts 16-24 AWG wires Watertight Cordgrip Installed (1/2" NPT Conduit fittings accepted when Cordgrip removed) Nickel Plated Brass or Stainless Steel 1/4" O.D. x 0.170" I.D. Poly Tubing		

Note¹: Accuracy includes linearity, hysteresis & repeatability @ 71°F (21.5°C) | Note²: Shift is relative to 71°F (21.5°C)





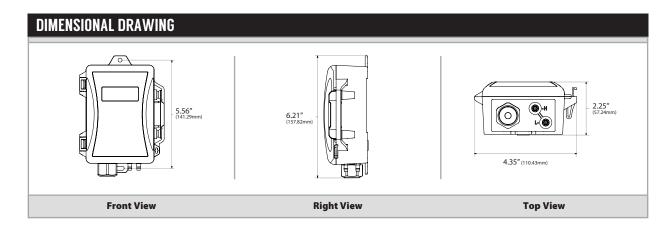






PRESSURE | DIFFERENTIAL LOW PRESSURE | DLP





STANDARD ORDERING Model # Example: A/W DLP 001 - WW DU N A - 00				0 -OR- 1	140769		
Model #	Item #	Ranges (Default i	n Bold)	Outputs (Default in Bo	ld) LCD*	PT*	DRC*
A/DLP-001-W-U-N-A-0	140769	0-0.1", 0.2", 0.5", 1"	±0.1", ±0.2", ±0.5", ±1"	4-20 mA , 0-5 VDC, 0-10 VD	OC		
A/DLP-001-W-U-D-A-0	140773	0-0.1", 0.2", 0.5", 1"	±0.1", ±0.2", ±0.5", ±1"	4-20 mA , 0-5 VDC, 0-10 VD	OC •		
A/DLP-010-W-U-N-A-0	140774	0-1", 2", 5", 10"	±1", ±2", ±5", ±10"	4-20 mA , 0-5 VDC, 0-10 VD	C		
A/DLP-010-W-U-D-A-0	140776	0-1", 2", 5", 10"	±1", ±2", ±5", ±10"	4-20 mA , 0-5 VDC, 0-10 VD	OC •		
A/DLP-040-W-U-N-A-0	140777	0-10", 20", 30", 40 "	±10", ±20", ±30", ±40"	4-20 mA , 0-5 VDC, 0-10 VD	C		
A/DLP-040-W-U-D-A-0	140778	0-10", 20", 30", 40"	±10", ±20", ±30", ±40"	4-20 mA , 0-5 VDC, 0-10 VD	OC •		
A/DLP-001-W-U-N-A-3	141072	0-0.1", 0.2", 0.5", 1"	±0.1", ±0.2", ±0.5", ±1"	4-20 mA , 0-5 VDC, 0-10 VD	C	•	•
A/DLP-001-W-U-D-A-3	141073	0-0.1", 0.2", 0.5", 1"	±0.1", ±0.2", ±0.5", ±1"	4-20 mA , 0-5 VDC, 0-10 VD	OC •	•	•
A/DLP-010-W-U-N-A-3	141074	0-1", 2", 5", 10"	±1", ±2", ±5", ±10"	4-20 mA , 0-5 VDC, 0-10 VD	C	•	•
A/DLP-010-W-U-D-A-3	141075	0-1", 2", 5", 10"	±1", ±2", ±5", ±10"	4-20 mA , 0-5 VDC, 0-10 VD	OC •	•	•
A/DLP-040-W-U-N-A-3	141076	0-10", 20", 30", 40 "	±10", ±20", ±30", ±40"	4-20 mA , 0-5 VDC, 0-10 VD	oc	•	•
A/DLP-040-W-U-D-A-3	141077	0-10", 20", 30", 40"	±10", ±20", ±30", ±40"	4-20 mA , 0-5 VDC, 0-10 VD	OC •	•	•

LCD* (Display Included) | **PT*** (Pitot Tube Included) | **DRC*** (Din Rail Clip Included)

ACCESSORIES ORDERING		DLP Model#Example: A/DRC-DLP -OR- 140999
Model #	Item #	Description
A/PT-DLP	140998	Pitot Tube, DLP Duct Static Size: 7" (6.75" Insertion) Material: Aluminum
A/DRC-DLP	140999	Din Rail Clip, DLP Size: 35 mm

Note*: Other compatible products include ACI's Pick up Port (A/PUP) Series, Medical Grade Tubing Kit (A/10'), Transformer Series (A/LE) and DC Power Supplies (A/PS1.5 or A/LPR)

ACCESSORIES ORDERING PITOT TUBES Model # Example: A/PT 5.2 -OR- 13014				
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

ACCESSORIE	S ORDERI	NG 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







