



## **DLP** (+/- 0.50% Accuracy)

## **Differential Low Pressure (Uni/Bidirectional)**

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.

The standard accuracy of this series is  $\pm 0.5\%$  FSO but is offered with  $\pm 0.25\%$  and N.I.S.T. certification as well (see expanded series). Field selectable analog outputs include 0-5 and 0-10 VDC, or 4-20mA which correlate to a uni or bidirectional 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 bidirectional ranges. Options include a Pitot Tube or Din Rail Clip.

Applications Include: building and duct static pressure, filter monitoring, air flow measurement, and process control.

PRODUCT SPECIFICATIONS					
Supply Voltage	4-20 mA Output: 16-36 VDC (250 Ohm Load max.) / 22-36 VDC (500 Ohm Load max.)				
	0-5 VDC / 0-10 VDC Output: 16-36 VDC / 24 VAC (+/- 10%)				
Supply Current	4-20 mA Output: 24 mA minimum   0-5 VDC / 0-10 VDC Output: 6 mA maximum				
Output Signals	Current Output: 4-20 mA, 2-Wire Loop Powered (Standard); (Current limited to 21.4 mA max)				
	Voltage Signals: 0-5 VDC / 0-10 VDC Field Selectable, 3-Wire; Output limited @ 5.25 & 10.5 VDC)				
Response Time (0-100% FSO)	8 seconds				
Output Update Rate	1 second				
Pressure Ranges	See Product Ordering Grid (next page); Field Selectable Uni and Bidirectional Ranges				
Accuracy <sup>1</sup>	+/- 0.5% FSO				
Zero Function	Pushbutton Zero Function				
Thermal Effects <sup>2</sup>	+/- 0.067% FSO / °F (0.12% FSO / °C)				
Proof Pressure / Burst Pressure <sup>3</sup>	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 Pa)				
	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	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	Dry air or inert non-conductive 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 or Stainless Steel				
Tubing Size Accepted	1/4" O.D. x 0.170" I.D. Poly Tubing				
Approvals	CE, Reach, RoHS2, WEEE				
Product Weight (No Pitot Tube OR 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<sup>1</sup>: Accuracy includes linearity, hysteresis & repeatability. | Note<sup>2</sup>: Shift is relative to 77°F (25°C). | Note<sup>3</sup>: "x" designates both the LCD "-D-" & Non-LCD Display "-N-" versions

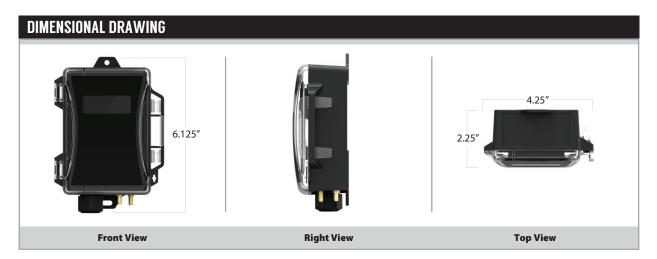












## ADDITIONAL PRODUCT INFORMATION

The DLP Series pressure transmitters incorporate a piezoresistive silicon sensing element to enable low pressure measurements. Integrated temperature compensation with offset and span calibration extends the performance of these devices to provide excellent long-term reliability. All units are calibrated using N.I.S.T. certified calibration equipment. A Pushbutton Zero function is included for making zero adjustments. The color coded terminal blocks are easily accessible and spring loaded to aid in installation.

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, www.workaci.com.

ORDERING			LCD (Display Included)   PT (Pitot Tube Included)   DRC (Din Rail Clip Included)						
Model #	Item #	Ranges (Default in Bold)		Outputs (Default in Bold)	LCD	PT	DRC		
A/DLP-001-W-U-N-A-0	140769	0-0.1", 0.2", 0.5", <b>1"</b>	±0.1", ±0.2", ±0.5", ±1"	<b>4-20 mA</b> , 0-5 VDC, 0-10 VDC					
A/DLP-001-W-U-D-A-0	140773	0-0.1", 0.2", 0.5", <b>1"</b>	±0.1", ±0.2", ±0.5", ±1"	<b>4-20 mA</b> , 0-5 VDC, 0-10 VDC	•				
A/DLP-010-W-U-N-A-0	140774	0-1", 2", 5", <b>10"</b>	±1", ±2", ±5", ±10"	<b>4-20 mA</b> , 0-5 VDC, 0-10 VDC					
A/DLP-010-W-U-D-A-0	140776	0-1", 2", 5", <b>10"</b>	±1", ±2", ±5", ±10"	<b>4-20 mA</b> , 0-5 VDC, 0-10 VDC	•				
A/DLP-040-W-U-N-A-0	140777	0-10", 20", 30", <b>40</b> "	±10", ±20", ±30", ±40"	<b>4-20 mA</b> , 0-5 VDC, 0-10 VDC					
A/DLP-040-W-U-D-A-0	140778	0-10", 20", 30", <b>40"</b>	±10", ±20", ±30", ±40"	<b>4-20 mA</b> , 0-5 VDC, 0-10 VDC	•				
A/DLP-001-W-U-N-A-3	141072	0-0.1", 0.2", 0.5", <b>1"</b>	±0.1", ±0.2", ±0.5", ±1"	<b>4-20 mA</b> , 0-5 VDC, 0-10 VDC		•	•		
A/DLP-001-W-U-D-A-3	141073	0-0.1", 0.2", 0.5", <b>1"</b>	±0.1", ±0.2", ±0.5", ±1"	<b>4-20 mA</b> , 0-5 VDC, 0-10 VDC	•	•	•		
A/DLP-010-W-U-N-A-3	141074	0-1", 2", 5", <b>10"</b>	±1", ±2", ±5", ±10"	<b>4-20 mA</b> , 0-5 VDC, 0-10 VDC		•	•		
A/DLP-010-W-U-D-A-3	141075	0-1", 2", 5", <b>10"</b>	±1", ±2", ±5", ±10"	<b>4-20 mA</b> , 0-5 VDC, 0-10 VDC	•	•	•		
A/DLP-040-W-U-N-A-3	141076	0-10", 20", 30", <b>40</b> "	±10", ±20", ±30", ±40"	<b>4-20 mA</b> , 0-5 VDC, 0-10 VDC		•	•		
A/DLP-040-W-U-D-A-3	141077	0-10", 20", 30", <b>40"</b>	±10", ±20", ±30", ±40"	<b>4-20 mA</b> , 0-5 VDC, 0-10 VDC	•	•	•		
Optional Accessories		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							

Part Number Example: A/DLP - 001 - W - U - N - A - 0 -- OR-- 140773







