Mid-West Instrument MODEL 115/116

Level Gauges & Switches for Tank Level Applications



Audited & Approved Oxygen Cleaning Available....



www.arcoengineering.com

Fx: (502) 966-3135

Switch Units
Switch Flags can be precisely adjusted to switch set point for highly visible alarm indication

gauges in 4-6 weeks ARO.



50 YEARS experience in the field of supplying quality Differential Pressure Gauges.

Tank Level Indication applications are for stationary, over the road, and portable tanks.

Models 115/116 multiple diaphragm/bellows design provides a simple, compact, accurate, direct-acting, low range differential pressure indicator. Models 115/116 are equipped with a Bi-directional Over Pressure Relief Valve (OPV).

When the Differential Pressure exceeds 130% of the range the OPV equalizes the pressure between the Hi and Lo sides. ¼" FNPT Dual top and bottom connections are provided as standard.

Models 115/116 is also equipped with a Micro adjust pointer, If necessary the pointer can be re-zeroed. Body is made of brass with 316 Stainless Steel internals. Viton Seals are standard with other elastomers available.



BENEFITS:

- "Engineered Plastic" gauge front and stainless steel body bolts provide corrosion resistance in "over the road" trailers, outdoor or salt air environments.
- Up to a 30 lb. weight savings over competitive Liquid Helium range gauges
 - Allows more product to be transported in mobile trailers
 - Easier and less labor to panel mount
- Dry gauge design with no internal liquid fill
 - Eliminates costly clean up from liquid fill leaking and fouling the tank and system
 - No gauge damage/accuracy loss caused by liquid fill expansion/contraction when exposed to temperature shocks in cryogenic applications
- Low & High range capabilities
 - Ideal for He, Ar, O2, N2, and CO2 tank level applications
 - For use on Stationary, Over the Road, and Portable tanks
- Industry best lead time reduces inventory requirements
- Adaptable to wide variety of mounting configurations
- Private Brand and Custom Dials available: Single Scale, Dual Scale, and Tri-Scale

0-100" H2O / Single Scale White on Black Dial





0-10" H2O / Single Scale Black on White Dial



Ar, O2, N2 Tri-Scale Dial

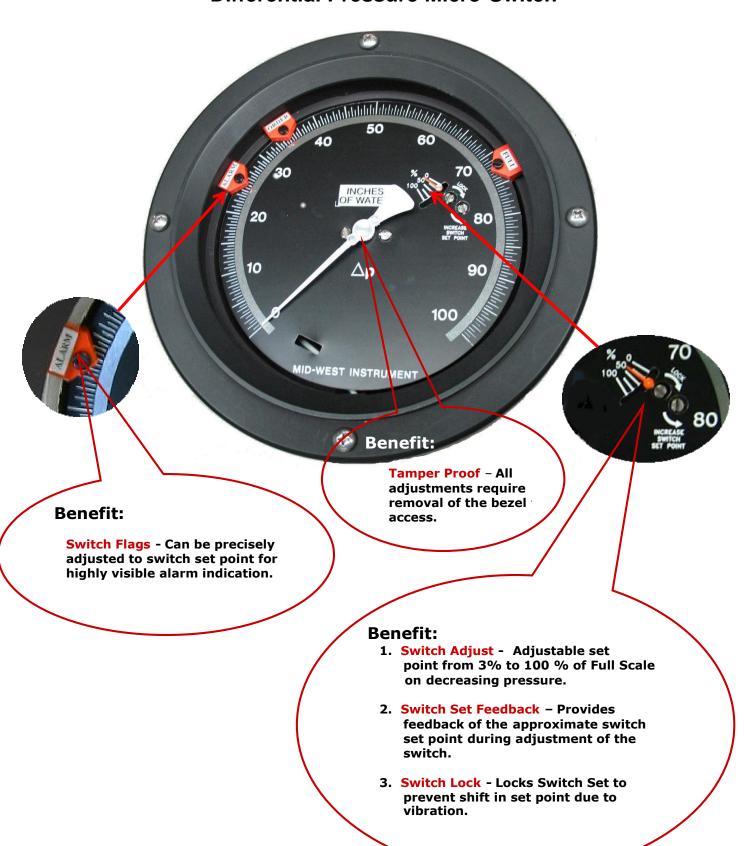
GAUGE SPECIFICATIONS

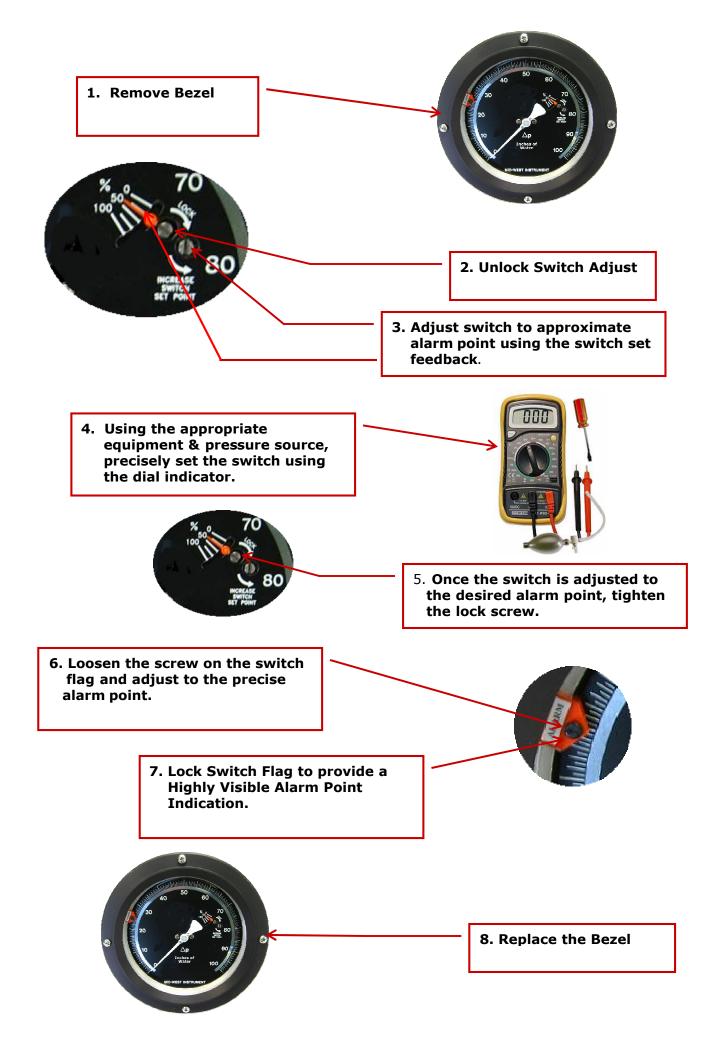
	115	**116	
Accuracy	±1% of Full Scale		
DP Range	0-10" H2O to 0-50" H2O (25 mbar to 125 mbar)	0-50" H2O to 0-600" H2O (125 mbar to 1.5 bar)	
Safe Working Pressure	1500 PSIG	500 PSIG (Standard) 1000 PSIG (Optional)	
Body Material	Brass	Brass	
Internals	316 S.S. Welded Multiple Diaphragm	316 S.S. Convoluted Bellows	
Port	Dual Top and Bottom, 1/4" FNPT connections with optional snubbers		
Seals	Viton® Standard, other elastomers available		
Dial	6" Black dial with White lettering (White dial with Black lettering optional)		
Warranty	One Year		

**Model 116 Snap Acting Micro-Switch for Alarm (optional) 0-80" H2O & above.

Aluminum, Carbon Steel, & Stainless Steel Body Materials Available... Ask about Model's 105, and 106 (SWP of 1,500 & 3,000 PSIG)

Tank Level / Industrial Gas Differential Pressure Micro-Switch







MICRO - SWITCH SPECIFICATION Model 116 Electrical 0-80" H₂O and above

Input Voltage:	None Required		
Set Pointers:	Quantity Adjustment:	1 3% to 100% of Full Scale	With visual set point set on decreasing pressure
Output(s)	Contact(s) Contact Rating:	1 SPDT 4 Amps Maximum 3 Amps Maximum 5 Amps	@ 30 VDC @ 240 VAC @ 120 VAC
Temperature:	Operating:	-20°F to +185°F	
Environment:	Standard:	Weather-Proof Housing	NEMA 4
Electrical Interface:	Standard:	18", 18 Awg., 600 V 105C Color Coded Wire Leads	1/2" FNPT
Gauge Accuracy:	2%	Including Effects of the switch	
Switch Repeatability:	2%	Maximum	

Proof Pressure: Two times working pressure at ambient temperatures

Temperature Limits: -40°F (-40°C) to 200°F (93°F)

Standards:

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ASME B1.20.1 CSA-C22.2 No.14 NEMA Std. No. 250 ASME B40.100 UL Std. No. 50 SAE J514

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