

# MODEL 115/116

## Your Quality Choice For Level Gauges or Switches For Cryogenic/Liquified Gas Applications



**Model 115**

Differential Pressure Range  
0-10" H<sub>2</sub>O to 0-50" H<sub>2</sub>O  
(25mbar to 125 mbar)

**Model 116**

Differential Pressure Range  
0-50" H<sub>2</sub>O to 0-400" H<sub>2</sub>O  
(125mbar to 1 bar)

## BENEFITS:

- ❖ "Engineered Plastic" gauge front and optional stainless steel body bolts provide superior corrosion resistance in "over-the-road" trailers, outdoor or salt air environments
- ❖ 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
- ❖ Up to a 30 lb. (14 kg) weight savings on liquid He ranges
  - Allows more products to be transported in mobile trailers
  - Easier and less labor to panel mount
- ❖ Adaptable to a wide variety of mounting configurations
- ❖ Ability to create custom dials for horizontal and vertical tanks

## PRODUCT FEATURES:

- ❖ Bi-Directional Relief Valve
- ❖ Micro adjust pointer
- ❖ Snap acting micro switch for alarm (optional)
- ❖ In house Oxygen Cleaning (optional)
- ❖ Private labeling (optional)
- ❖ White ink on back dial or black ink on white dial



## GAUGE SPECIFICATIONS

	<b>115</b>	<b>116</b>
Accuracy	$\pm 1\%$ of Full Scale	
$\Delta P$ Range	0-10" H <sub>2</sub> O to 0-50" H <sub>2</sub> O (25 mbar to 125 mbar)	0-60" H <sub>2</sub> O to 0-400" H <sub>2</sub> O (125 mbar to 1 bar)
Safe Working Pressure	1500 PSIG	500 PSIG (Standard) 1000 PSIG (Optional)
Body Material	Anodized Aluminum, Brass, 316/316L	Brass
Internals	316 S.S. Welded Multiple Diaphragm	316 S.S. Convuluted 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	

**PROOF PRESSURE:** Two times working pressure at ambient temperature

**TEMPERATURE LIMITS:** -40°F (-40°C) to 200°F (93°C)

### STANDARDS:

ASME B1.20.1  
ASME B40.100

CSA-C22.2 No. 14  
UL Std. No. 50

NEMA Std. No. 250  
SAE J514



## MICRO-SWITCH SPECIFICATION

### ELECTRICAL

<b>Input Voltage:</b>	None required		
<b>Set Pointers:</b>	Quantity: Adjust:	1 3% to 100% of Full Scale	With visual set point set on decreasing pressure
<b>Output(s):</b>	Contact(s) Contact Rating:	1 SPDT 4 Amps Maximum 3 Amps Maximum 5 Amps	@ 30 VDC @ 240 VAC @120 VAC
<b>Temperature:</b>	Operating:	-20°F to +185°F	
<b>Environment:</b>	Standard:	Weather-proof Housing	NEMA 4
<b>Electrical: Interface</b>	Standard:	18", 18 Awg., 600 V, 105C color coded wire leads	½" FNPT
<b>Gauge Accuracy:</b>	2%	Including effects of the switch	
<b>Switch Repeatability:</b>	2%	Maximum	

**Gauge Specifications: See Page 3**

Manufacturer reserves the right to change specifications without prior notice

**Mid-West<sup>®</sup>**  
Instrument



Engineering &  
Industrial  
Instrumentation

**CMC TECHNOLOGIES**

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