

Mid-West[®] Instrument



Now Available!

Model 105 TANK LEVEL GAUGE for LIQUID HYDROGEN SERVICE



No Liquid Fill required

*Over-Range Protection
High over Low
and Low over High!*



Mid-West Model 105 bellows design provides a simple, compact, accurate, direct-acting, low range differential pressure level indicator. Accuracy $\pm 1\%$ of Full Scale

Range Model 105: 0-10" H₂O to 0-50" H₂O (25 mbar to 125 mbar)

Benefits:

- Stainless Steel Gauge Front, Stainless Steel Body with Shatter-Proof Glass Lens.
 - Provides superior safety and corrosion resistance.
- Dry gauge design with no internal liquid fill
 - No costly clean up from liquid fill leaking
 - No chance of unacceptable or incompatible fill fluid being in the gauge.
 - No gauge damage/accuracy loss caused by liquid fill expansion or contraction when exposed to temperature extremes in Hydrogen level applications.
- Single bellows design is more compact and light weight.
 - Substantial weight savings over competitive range gauges.
 - Can be panel mounted in a one piece panel.
 - Can be mounted on tanks using std. 2" pipe mount brackets or 3/4" pipe nipple brackets.
- Mid-West Instrument performs Helium leak testing on units for Hydrogen service.

Product Description:

The Model 105 design is an all-stainless steel differential pressure gauge capable of operating at low differential pressures. Safe working pressure is 1500 PSIG standard. The DPI is 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 side's 1/4" FNPT Dual top and bottom connections are provided as standard. The DPI is also equipped with a Micro adjust pointer, If necessary the pointer can be re-zeroed. Body is made of stainless steel with 316 Stainless Steel internals. Viton Seals are provided as standard with other elastomers available. Dial is 6" diameter with white lettering on a black dial.(white dial with black lettering optional) The temperature limits are rated at -40°C to 200°F. Proof pressure is two times working pressure at ambient temperatures.

Product Features:

- Ability to create custom dials for horizontal and vertical tanks
- Various Dial layouts available: **Single Scale, Dual Scale and Tri-Scale**
- Micro-Adjust pointer (if necessary the pointer can be re-zeroed)
- In house Oxygen Cleaning (optional)
- Private Labeling (optional)
- White ink on Black dial or Black ink on White dial
- **Industry best lead time reduces inventory requirements**



Gauge Specifications

105	
Accuracy	±1% of Full Scale
DP Range	0-10" H2O to 0-50" H2O (25 mbar to 125 mbar)
Safe Working Pressure	1500 PSIG (3000 PSIG optional)
Body Material	316 Stainless Steel
Dial Case & Bezel	316 Stainless Steel
Internals	316 Stainless Steel Multiple 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)
Standard Mounting	Panel Mountable
Optional Mounting	2" Pipe Mount
Warranty	Five Year

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

Proof Pressure: Two times working pressure at ambient temperatures

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

Standards:

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

BOURDON TUBE STYLE GAUGE



For Installation and Operation Manuals
Please Visit: www.midwestinstrument.com/literature

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