

# 624H

## Heated (45°C) Absolute Baratron® Capacitance Manometer with Trip Points



The 624H absolute Baratron® capacitance manometer features two user adjustable process trip point relays, each with an adjustment range from 0.1% to 100% of Full Scale or voltage equivalent 0.01 to 10 VDC. Dual color LEDs indicate relay status. Typical relay uses include pump cross-over and valve activation. The 624H is heated to 45°C, and is available in Full Scale ranges of 1, 10, 20, 100, 500, and 1000 Torr. The instrument

operates with  $\pm 15$  VDC ( $\pm 5\%$ ) input at  $< 400$  mA, and provides an output of 0 to 10 VDC linear with pressure.

The sensor of the 624H exposes only Inconel® to the process permitting the use with corrosive or dirty gases. Measurements are independent of gas composition. The modern stainless steel enclosure provides a cleanroom compatible product.

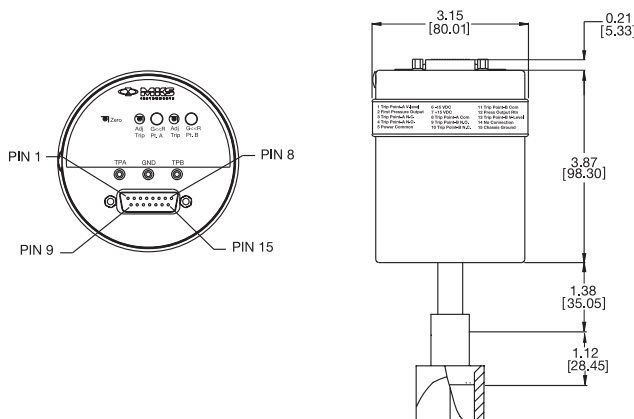
### Product Features

- Percent of Reading accuracy for more repeatable output signal
- Two process trip point relays with LED indicators and voltage test points
- All Inconel corrosion resistant wetted surfaces
- Integrated sump (US Patent #5,822,685) provides particle protection
- Compatible with earlier Baratron capacitance manometers, MKS power supply/readout modules and pressure controllers



### Key Benefits

- Measures total pressure directly, independent of gas composition
- High overpressure rating for improved reliability
- Cleanroom-compatible stainless steel package



Dimensional Drawing - Unless otherwise specified, dimensions are nominal values in inches (mm referenced).

Specifications		
Full Scale Ranges		1, 5, 10, 20, 100, 500, and 1000 Torr
Resolution		0.001% of Full Scale
Accuracy		0.12% of Reading (including non-linearity, hysteresis, and non-repeatability)
Temperature Coefficients	Zero Span	<ul style="list-style-type: none"> <li>• 0.002% of Full Scale/°C</li> <li>• 0.02% of Reading/°C</li> </ul>
Ambient Operating Temperature		15°C to 40°C
Volume		6.3 cc
Warm-Up Time		2 hours
Overpressure Limit		45 psia (310 kPa)
Materials Exposed to Gases		Inconel (Optional fittings: 316 SS)
Input Power Required		±15 VDC ±5% @ 0.40 Amps (max.)
Output Signal		Pressure: 0 to +10 VDC into > 10K Ω load
Output Relays		SPDT contacts rated at 1 Amp @ 30 VDC or 0.5 Amp @ 30 VAC resistive
Trip Point Level Signal		0.01 to 10 VDC for each trip point
Fittings	Standard Optional	<ul style="list-style-type: none"> <li>• 1/2" (12.7 mm) tubulation</li> <li>• 8 VCR® female, Mini-CF, NW 16 KF, NW 25 KFF</li> </ul>
Compliance		CE

Ordering Code Example: 624H11TBACB	Code	Configuration
Model		
624H	624H	624H
Ranges mmHg (Torr)		
1 5 10 20 100 500 1000	01T 05T 11T 21T 12T 52T 13T	11T
Fittings		
1/2" Tube 8 VCR Mini-CF NW16KF NW25KF	BA CE HA GA GC	BA
Accuracy (% of Reading)		
0.12%	C	C
Connector		
15 pin Type "D" with Thread Locks 15 pin Type "D" with Slide Locks Terminal Block Adapter 15 pin Type "D", Filtered	B P U V	B