

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 ± 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.

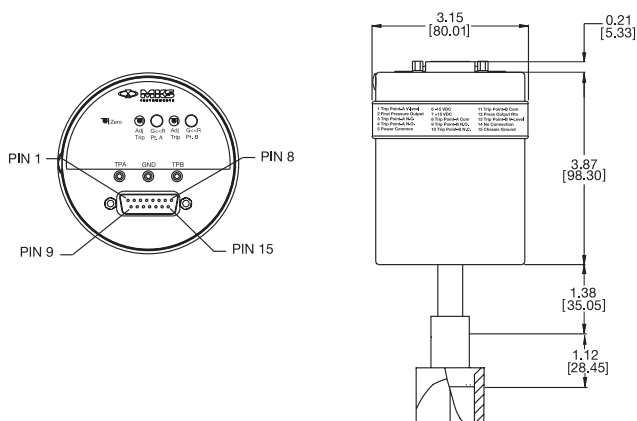
Product Features

- 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 • 0.002% of Full Scale/°C • 0.02% of Reading/°C
Ambient Operating Temperature	
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 • 1/2" (12.7 mm) tubulation • 8 VCR® female, Mini-CF, NW 16 KF, NW 25 KFF
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