

623H

Unheated Absolute Baratron® Capacitance Manometer with Trip Points



The 623H unheated absolute 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 623H is an unheated temperature transducer, and is available in Full Scale ranges of 10, 20, 100, 500, and 1000 Torr.

The instrument operates with ± 15 VDC ($\pm 5\%$) input at <100 mA, and provides an output of 0 to 10 VDC linear with pressure.

The sensor of the 623H exposes only Inconel® to the process permitting the use with corrosive or dirty gases. Measurements are independent of gas composition.

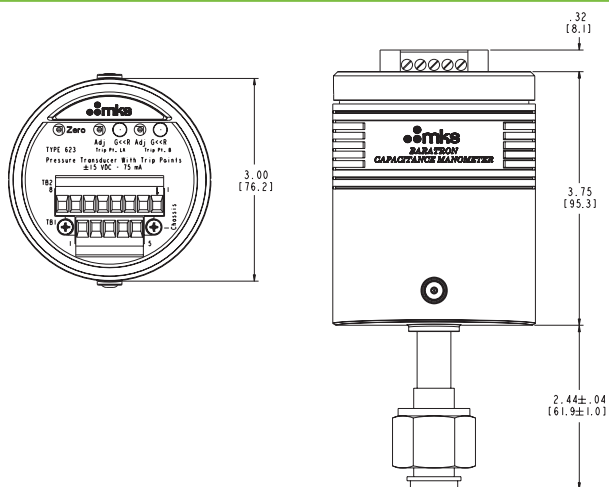
Product Features

- 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	10, 20, 100, 500, and 1000 Torr
Resolution	0.001% of Full Scale
Accuracy	0.25% of Reading (including non-linearity, hysteresis, and non-repeatability)
Temperature Coefficients	Zero Span 0.005% of Full Scale/°C 0.04% of Reading./°C
Ambient Operating Temperature	0°C to 50°C
Volume	6.3 cc
Warm-Up Time	30 minutes
Overpressure Limit	45 psia (310 kPa)
Materials Exposed to Gases	Incoloy® and Inconel (Optional fittings: 316 SS)
Input Power Required	±15 VDC ±5% @ 75 mA
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 1/2" (12.7 mm) tubulation 8 VCR® female, Mini-CF, NW 16 KF, NW 25 KF
Compliance	CE

Ordering Code Example: 623H11TAE	Code	Configuration
Model		
623H	623H	623H
Ranges mmHg (Torr)		
10 20 100 500 1000	11T 21T 12T 52T 13T	11T
Fittings		
1/2" Tube 8 VCR Mini-CF NW 16 KF 8 VCO Female 2 3/4" Rotatable CF NW 25 KF	A B C D E L Q	A
Accuracy (see specifications for applicability)		
0.25% 0.15% (Optional 10, 100, and 1000 Torr only)	E D	E