



625F

BARATRON® ABSOLUTE CAPACITANCE MANOMETER TEMPERATURE CONTROLLED TO 100°C WITH TRIP POINTS

The Baratron® 625F Absolute Capacitance Manometer is the latest addition to the MKS family of general purpose capacitance manometers. It 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 625F is temperature controlled at 100°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 < 600 mA, and provides an output of 0 to 10 VDC linear with pressure.

The 625F's sensor 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.

Features & Benefits

Accurate

- Percent of Reading accuracy for more repeatable output signal
- Two process trip point relays with LED indicators and voltage test points
- Measures total pressure directly, independent of gas composition

Robust

- All Inconel corrosion resistant wetted surfaces
- Integrated sump (US Patent #5,822,685) provides particle protection
- High overpressure rating for improved reliability

Compatible

- Cleanroom-compatible stainless steel package
- Compatible with earlier Baratron capacitance manometers, MKS power supply/readout modules and pressure controllers

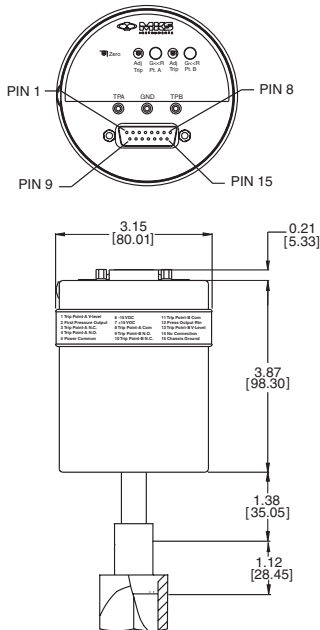
Pressure & Vacuum Measurement Solutions

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Specifications and Ordering Information

Full Scale Ranges	1, 10, 20, 100, 500, and 1000 Torr
Resolution	0.001% of F.S.
Accuracy	0.25% of Reading (including non-linearity, hysteresis, and non-repeatability)
Temperature Coefficients	
Zero	0.002% of F.S./°C
Span	0.02% of Rdg./°C
Ambient Operating Temperature	15°C to 50°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% @ 0.60 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
Compliance	CE
Fittings	Standard: 1/2" (12.7 mm) tubulation; Optional: 8 VCR® female, Mini-CF, NW 16 KF, NW 25 KF



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

Ordering Code Example: 625F11TBAEB

Model	Code	Configuration
625F	625F	625F
Ranges mmHg (Torr)		
1	01T	11T
10	11T	
20	21T	
100	12T	
500	52T	
1000	13T	
Fittings		
1/2" Tube	BA	BA
8 VCR	CE	
Mini-CF	HA	
NW 16 KF	GA	
NW 16 KF, right angle	GE	
NW 25 KF	GC	
Accuracy (% of Reading)		
0.25%	E	E
Connector		
15 pin Type "D" with Thread Locks	B	B
15 pin Type "D" with Slide Locks	P	
Terminal Block Adapter	U	
15 pin Type "D", Filtered	V	



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