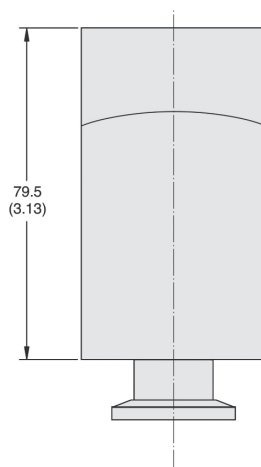
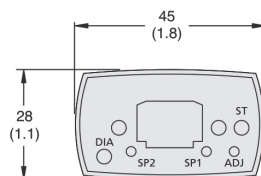


PCG-750/PCG-752 Series Pirani Capacitance Diaphragm Gauges



Dimensions: millimeters (inches)

The Agilent PCG-750 series active gauges, PCG-750 and PCG-752, combine Pirani and ceramic capacitance diaphragm sensors into a single design. These gauges provide gas-type independence and increased accuracy in the range from 3.8×10^{-5} to 1125 Torr (5×10^{-5} to 1500 mbar).

Features	Benefits
High accuracy and reproducibility at atmosphere	Reliable atmospheric pressure monitoring
Fast atmospheric detection	Shortens process cycle times
Gas-type independent above 10 mbar	Allows safe venting with any gas mixture
Compact, rugged housing that mounts in any orientation with a logarithmic signal output	Ease of integration
Set point control	Utilize pressure readings to perform critical operations
Exchangeable plug and play sensor	Easy to repair with low cost of ownership
Nickel filament option	Solution for corrosive applications
Bright color LCD display option	Monitor pressure readings easily

Technical Specifications

Measurement range (Air, O ₂ , CO, N ₂)	5 x 10 ⁻⁵ to 1500 mbar (3.8 x 10 ⁻⁵ to 1125 Torr)					
Accuracy	% of reading	Units				
	±50%	5 x 10 ⁻⁵ to 1 x 10 ⁻³ mbar (3.75 Torr to 1 x 10 ⁻³ Torr)				
	±15%	1 x 10 ⁻³ to 100 mbar (1 x 10 ⁻³ to 75 Torr)				
	±5%	100 to 950 mbar (75 to 712.5 Torr)				
	±2.5%	950 to 1050 mbar (712.5 to 787.5 Torr)				
Repeatability (N ₂)	% of reading	Units				
	±2.5%	1 x 10 ⁻³ to 1100 mbar (1 x 10 ⁻³ to 825 Torr)				
Admissible pressure	≤ 5 bar absolute					
Burst pressure	≤ 10 bar absolute					
Admissible temperature	Operation (ambient) 10 to 50 °C	Storage -20 to +65 °C	Bakeout at flange ≤ 80 °C			
Supply voltage	15 to 30 VDC @ < 0.8 A					
Output signal	0 to 10.23 V					
Measurement range	0.61 to 10.23 V					
Voltage vs. pressure	1.286 V/decade					
Load impedance	> 10 kΩ					
Setpoint relay (2)	Range (N ²)	Relay Contact	Hysteresis	Contact Rating Solid state relays	Contact Rating Mechanical relays	Switching time
	5 x 10 ⁻⁵ to 1500 mbar	n.o., potential free	10 % of threshold	≤30VDC/ ≤0.3ADC	≤30VDC/ ≤1ADC	≤30 ms
Interface (digital)	RS232C					
Electrical connection	RJ45/FCC 68, 8 pole female					
Materials exposed to vacuum	PCG-750: W, Ni, NiFe, Al ₂ O ₃ , SnAg, SS, glass PCG752: Ni, NiFe, Al ₂ O ₃ , SnAg, SS, glass					

Ordering Information

Description	Part Number
PCG-750 Pirani/CDG combination gauge (tungsten), DN 16 ISO-KF	PCG750KF16
PCG-750 Pirani/CDG combination gauge (tungsten) with setpoints and display, DN 16 ISO-KF (mbar)	PCG750KF16SD1
PCG-750 Pirani/CDG combination gauge (tungsten) with setpoints and display, DN 16 ISO-KF (Torr)	PCG750KF16SD2
PCG-750 Pirani/CDG combination gauge (tungsten) with setpoints and display, DN 16 ISO-KF (pascal)	PCG750KF16SD3
PCG-750 Pirani/CDG combination gauge (tungsten) with setpoints and Profibus, DN 16 ISO-KF (mbar)	PCG750KF16SP
PCG-752 Pirani/CDG combination gauge (nickel), DN 16 ISO-KF	PCG752KF16
PCG-752 Pirani/CDG combination gauge (nickel) with setpoints and display, DN 16 ISO-KF (mbar)	PCG752KF16SD1
PCG-752 Pirani/CDG combination gauge (nickel) with setpoints and display, DN 16 ISO-KF (Torr)	PCG752KF16SD2
PCG-752 Pirani/CDG combination gauge (nickel) with setpoints and display, DN 16 ISO-KF (pascal)	PCG752KF16SD3
PCG-752 Pirani/CDG combination gauge (nickel) with setpoints and Profibus, DN 16 ISO-KF (mbar)	PCG752KF16SP
Accessories	
PCG-750 (tungsten) Replacement sensor –recommended for most applications	PCG750KF16RS
PCG-752 (nickel) Replacement sensor –recommended for corrosive applications	PCG752KF16RS
Power supply, PVG-PCG, International Voltage	AGPS45INT
Active gauge cable for Turbo AG Controllers, TPS Mini/Compact, 3 meters	9699960
Active gauge cable for Turbo AG Controllers, TPS Mini/Compact, 5 meters	9699961

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www.agilent.com/chem/vacuum where
you can chat live with a vacuum expert.



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