

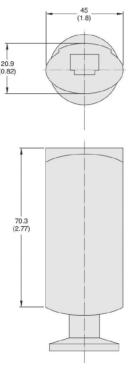


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PVG-500/PVG-500S/PVG-502S Series Pirani Gauges





Dimensions: millimeters (inches)

The Agilent PVG-500/500S (tungsten) / 502S (nickel) series of Pirani gauges provide the ultimate combination of state-of-art technology and ruggedness within a compact design. The PVG-500 series utilizes the most advanced digital Pirani technology combined with a stainless steel sensor cell design to meet the various needs of the market.

There is an easy pushbutton ATM and High Vacuum (HV) adjustment. The nickel filament option is an effective solution for corrosive applications.

Features	Benefits
Compact, rugged aluminum housing that mounts in any orientation with a logarithmic signal output	Ease of integration
Stainless steel sensor cell with metal-sealed feedthrough	Rugged design for a wide range of applications
Easy push button ATM and High Vacuum (HV) adjustment	Ease of set-up
Nickel filament option	Solution for corrosive applications
Optional set points	Utilize pressure readings to perform critical operations



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Technical Specifications



	(4: 0. 00 11)		F 404: 4000 I	(0.75 404+ 750 T)		
Measurement range	2 2	5 x 10 ⁻⁴ to 1000 mbar (3.75 x 10 ⁻⁴ to 750 Torr)				
Accuracy (N ₂)	% of reading	Units				
	±15%	1 x 10 ³ to 100 mbar (1 x 10 ³ to 75 Torr)				
	±50%	5 x 10 ⁴ to 1 x 10 ³ mbar (3.75 x 10 ⁴ to 1 x 10 ³ Torr)			orr)	
	±50%	100 to 1000 mbar (75 to 750 Torr)				
Repeatability (Air)		1 x 10 ⁻³ to 100 mbar (1 x 10 ⁻³ to 75 Torr) – % of reading 62%			ng 62%	
Output signal (measurement signal	al)	Voltage range 0 to 10.3 V	Voltage range		Measurement range 1.9 to 10.0 V	
Voltage vs. pressure	*	0 to 10.5 v	1.286 V/decade, logarithmic		1.9 to 10.0 V	
Error signal	-	0 to 0.5 V (filament rupture)				
Minimum loaded im	nodonos	10 kΩ, short-circuit proof				
Response time	pedance	80 ms				
Adjustment		One tactile switch for both ATM and HV adjustment				
Identification gauge		•				
identification gauge	•	DV0 500	27 kΩ, referenced to supply common		DVG 5000 DVG 5000	
		PVG-500		PVG-500S, PVG-502S		
Setpoint		None		2		
Setting range			None		2 x 10 ⁻³ to 500 mbar (1.5 x 10 ⁻³ to 375 Torr)	
Hysteresis		None		10% above lower threshold % of reading		
Relay contact		None		30 VDC / 0.5 ADC floating		
Switching time		None	<20 ms		<20 ms	
Supply voltage		At gauge 14 to 30 VDC	Rip ≤1 \		Power consumption ≤1 W	
Electrical connectio	n	RJ45/FCC 68, 8 pole female				
Sensor cable		8 poles plus shielding				
Cable length		≤100 meter (330 ft)				
Materials exposed t	o vacuum	Glass, Ni, NiFe, tungsten (tungsten version)				
Admissible tempera	iture	Operation 5 to 60 °C	Storage Bakeout at Flange ¹ -20 to +65 °C 80 °C		AL COLUMN DE L'ESTE COLUMN DE LITTLE DE LA COLUMN DE LA C	
Mounting orientatio	n	Any				
Weight		80 g				

¹ In horizontal mounting position

Ordering Information

Description	Part Number
PVG-500 PPirani, tungsten filaments, DN 16 ISO-KF	PVG500KF16
PVG-500 Pirani tungsten filament with setpoints, DN 16 ISO-KF	PVG500KF16S
PVG-502 Pirani nickel filament with setpoints, DN 16 ISO-KF – for corrosive applications	PVG502KF16S
Accessories	
Power supply, PVG-PCG, International Voltage	AGPS45INT
PVG-500 Replacement sensor (tungsten) – recommended for most applications	PVG500KF16RS
PVG-502 Replacement sensor (nickel) – recommended for corrosive applications	PVG502KF16RS
PVG-550 Pirani tungsten filament with setpoints, with LCD display (mbar), DN 16 ISO-KF	PVG550KF16SD1
PVG-550 Pirani tungsten filament with setpoints, with LCD display (Torr), DN 16 ISO-KF - for corrosive applications	PVG550KF16SD2
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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This information is subject to change without notice.





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