

PSG5xx

INFICON 皮拉尼标准真空计 PSG500、PSG502-S、PSG510-S 和 PSG512-S 采用当今市场上最先进的数字皮拉尼技术。不锈钢传感器单元坚固耐用，结构设计紧凑，适用于半导体系统和标准应用，例如前级真空管。



益处

- 轻松一键调节 ATM 和 HV
- 节省空间的坚固设计
- 铝质壳体
- 可在任意方向安装
- 不锈钢测量单元，带金属密封馈入装置
- 便于集成的对数信号输出
- 螺纹接头，具有 10 巴绝对过压能力
- 250 °C 烘烤型
- 在腐蚀应用中可选购镍丝
- 陶瓷馈入装置，适用于腐蚀性极强的应用 (PSG510 & PSG512)
- 可选设定点
- RoHS 合规

订购信息

类型	PSG500 tungsten	PSG500-S tungsten, setpoints	PSG502-S nickel, setpoints	PSG510-S tungsten, setpoints, ceramic feedthroughs	PSG512-S nickel, setpoints, ceramic feedthroughs
PSG500 1/2" Tube	350-063				
PSG500 1/8" NPT	350-061				
PSG500 4-VCR (1/4")	350-065				
PSG500 7/16-20 UNF	350-066				
PSG500 8-VCR (1/2")	350-064				
PSG500 DN 16 CF-R, ext. body	350-068				
PSG500 DN 16 ISO-KF, ext. body	350-067				
PSG500-S 1/2" Tube		350-083			
PSG500-S 1/8" NPT		350-081			
PSG500-S 4-VCR (1/4")		350-085			
PSG500-S 7/16-20 UNF		350-086			
PSG500-S 8-VCR (1/2")		350-084			
PSG500-S DN 16 CF-R		350-082			
PSG500-S DN 16 CF-R, ext. body		350-088			
PSG500-S DN 16 ISO-KF, ext. body		350-087			
PSG500-S真空计		350-080			
PSG500规管	350-062				
PSG502-S 1/2" Tube			350-143		
PSG502-S 1/8" NPT			350-141		
PSG502-S 4-VCR (1/4")			350-145		
PSG502-S 7/16-20 UNF			350-146		
PSG502-S 8-VCR (1/2")			350-144		
PSG502-S DN 16 CF-R			350-142		
PSG502-S DN 16 CF-R, ext. body			350-148		
PSG502-S DN 16 ISO-KF, ext. body			350-147		
PSG502-S真空计			350-140		
PSG510-S DN 16 ISO-KF				350-200	
PSG512-S DN 16 ISO-KF					350-300
皮拉尼真空计	350-060				

规格

类型		PSG500 tungsten	PSG500-S tungsten, setpoints	PSG502-S nickel, setpoints	PSG510-S tungsten, setpoints, ceramic feedthroughs	PSG512-S nickel, setpoints, ceramic feedthroughs
测量原则		thermal conductance according to Pirani	thermal conductance according to Pirani	thermal conductance according to Pirani	thermal conductance according to Pirani	thermal conductance according to Pirani
精度 (N ₂)						
1 x 10 ⁻³ ... 100 毫巴	% of reading	±15%	±15%	±15%	±15%	±15%
5 x 10 ⁻⁴ ... 1 x 10 ⁻³ 毫巴	% of reading	±50%	±50%	±50%	±50%	±50%
100 ... 1000 毫巴	% of reading	±50%	±50%	±50%	±50%	±50%
可重复性 (空气)						
1 x 10 ⁻³ ... 100 毫巴	% of reading	2%	2%	2%	2%	2%
输出信号 (测量信号)						
电压范围	V	0 ... +10.3	0 ... +10.3	0 ... +10.3	0 ... +10.3	0 ... +10.3
测量范围	V	+1.9 ... +10.0	+1.9 ... +10.0	+1.9 ... +10.0	+1.9 ... +10.0	+1.9 ... +10.0
测量范围 (空气、O ₂ 、CO、N ₂)	mbar	5 x 10 ⁻⁴ to 1000	5 x 10 ⁻⁴ to 1000	5 x 10 ⁻⁴ to 1000	5 x 10 ⁻⁴ to 1000	5 x 10 ⁻⁴ to 1000
设定点						
设定点数量		none	2	2	2	2
设定点						
设置范围	mbar	–	2 x 10 ⁻³ ... 500	2 x 10 ⁻³ ... 500	2 x 10 ⁻³ ... 500	2 x 10 ⁻³ ... 500
设定点						
滞后	% of reading	–	10% above lower threshold	10% above lower threshold	10% above lower threshold	10% above lower threshold
设定点						
继电器触点	V (dc)	–	30	30	30	30
设定点						
继电器触点	A (dc)	–	0.5 floating	0.5 floating	0.5 floating	0.5 floating
设定点						
继电器触点：转换时间	ms	–	<20	<20	<20	<20
电源电压						
真空计上	V (dc)	+14 ...+30	+14 ...+30	+14 ...+30	+14 ...+30	+14 ...+30
电源电压						
波纹	V (p-p)	≤1	≤1	≤1	≤1	≤1

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电压与压强		logarithmic 1.286 Volts per decade	logarithmic 1.286 Volts per decade	logarithmic 1.286 Volts per decade	logarithmic 1.286 Volts per decade	logarithmic 1.286 Volts per decade
内部容积						
DN 16 ISO-KF , DN 16 CF-R , 7/16-20 UNF	cm ³ (in. ³)	1.5 (0.092)	1.5 (0.092)	1.5 (0.092)	1.5 (0.092)	1.5 (0.092)
DN 16 ISO-KF & DN 16 CF-R 长管	cm ³ (in. ³)	10 (0.61)	10 (0.61)	10 (0.61)	10 (0.61)	10 (0.61)
1/8" NPT , 4 VCR , 8 VCR , 1/2" 管	cm ³ (in. ³)	2 (0.122)	2 (0.122)	2 (0.122)	2 (0.122)	2 (0.122)
容许温度						
运行	°C	+5 ... +60	+5 ... +60	+5 ... +60	+5 ... +60	+5 ... +60
真空连接 (1)	°C	80 / 250 ⁽²⁾	80 / 250 ⁽²⁾	80 / 250 ⁽²⁾	80 / 250 ⁽²⁾	80 / 250 ⁽²⁾
贮存	°C	-20 ... +65	-20 ... +65	-20 ... +65	-20 ... +65	-20 ... +65
重量						
DN 16 ISO-KF , 7/16-20 UNF	g	80	80	80	80	80
DN 16 CF-R , 4 VCR	g	100	100	100	100	100
1/8" NPT , 1/2" 管	g	70	70	70	70	70
8 VCR , DN 16 ISO-KF 长管	g	130	130	130	130	130
DN 16 CF-R 长管	g	140	140	140	140	140
错误信号	V	0 ... +0.5 (filament rupture)	0 ... +0.5 (filament rupture)	0 ... +0.5 (filament rupture)	0 ... +0.5 (filament rupture)	0 ... +0.5 (filament rupture)
输出电阻	Ω	2 x 4.7	2 x 4.7	2 x 4.7	2 x 4.7	2 x 4.7
最小负载电阻	kΩ	10, short-circuit proof	10, short-circuit proof	10, short-circuit proof	10, short-circuit proof	10, short-circuit proof
反应时间	ms	80	80	80	80	80
真空计识别	kΩ	27.0, referenced to supply common	27.0, referenced to supply common	27.0, referenced to supply common	27.0, referenced to supply common	27.0, referenced to supply common

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调整		one tactile switch for ATM and HV adjustment	one tactile switch for ATM and HV adjustment	one tactile switch for ATM and HV adjustment	one tactile switch for ATM and HV adjustment	one tactile switch for ATM and HV adjustment
电流消耗	mA	<500 (max. starting current)	<500 (max. starting current)	<500 (max. starting current)	<500 (max. starting current)	<500 (max. starting current)
功耗	W	≤1	≤1	≤1	≤1	≤1
电气连接		FCC 68 / RJ45 appliance connector, 8 poles, male	FCC 68 / RJ45 appliance connector, 8 poles, male	FCC 68 / RJ45 appliance connector, 8 poles, male	FCC 68 / RJ45 appliance connector, 8 poles, male	FCC 68 / RJ45 appliance connector, 8 poles, male
传感器电缆		8 poles plus shielding	8 poles plus shielding	8 poles plus shielding	8 poles plus shielding	8 poles plus shielding
电缆长度	m	≤100 (8 x 0.14 mm ²)	≤100 (8 x 0.14 mm ²)	≤100 (8 x 0.14 mm ²)	≤100 (8 x 0.14 mm ²)	≤100 (8 x 0.14 mm ²)
暴露于真空的材料		glass, Ni, NiFe, DIN 1.4301 / 1.4305 / 1.4435	glass, Ni, NiFe, DIN 1.4301 / 1.4305 / 1.4435	glass, Ni, NiFe, DIN 1.4301 / 1.4305 / 1.4435	Al ₂ O ₃ , Ni, DIN 1.3981 / 1.4305 / 1.4435	Al ₂ O ₃ , Ni, DIN 1.3981 / 1.4305 / 1.4435
单丝		W	W	Ni	W	Ni
容许压力	bar (absolute)	10, limited to inert gases	10, limited to inert gases	10, limited to inert gases	10, limited to inert gases	10, limited to inert gases
安装定位		any	any	any	any	any
保护等级		IP40	IP40	IP40	IP40	IP40

(1) In horizontal mounting orientation

(2) Long tube

备件

	PSG500 tungsten	PSG500-S tungsten, setpoints	PSG502-S nickel, setpoints	PSG510-S tungsten, setpoints, ceramic feedthroughs	PSG512-S nickel, setpoints, ceramic feedthroughs
PSG500 Spare Sensor 4-VCR (1/4")	350-926	350-926	-	-	-
PSG500 Spare Sensor 1/2" Tube	350-923	350-923	-	-	-
PSG500 Spare Sensor 1/8" NPT	350-921	350-921	-	-	-
PSG500 Spare Sensor 7/16-20 UNF	350-925	350-925	-	-	-
PSG500 Spare Sensor 8-VCR (1/2")	350-924	350-924	-	-	-
PSG500 Spare Sensor DN 16 CF-R	350-922	350-922	-	-	-
PSG500 Spare Sensor DN 16 CF-R,ext.body	350-928	350-928	-	-	-
PSG500 Spare Sensor DN 16 KF,ext.body	350-927	350-927	-	-	-
PSG500备用传感器	350-920	350-920	-	-	-
PSG502 Spare Sensor 1/2" Tube	-	-	350-903	-	-
PSG502 Spare Sensor 1/8" NPT	-	-	350-901	-	-
PSG502 Spare Sensor 4-VCR (1/4")	-	-	350-906	-	-
PSG502 Spare Sensor 7/16-20 UNF	-	-	350-905	-	-
PSG502 Spare Sensor 8-VCR (1/2")	-	-	350-904	-	-
PSG502 Spare Sensor DN 16 CF-R	-	-	350-902	-	-
PSG502 Spare Sensor DN 16 CF-R,ext.body	-	-	350-908	-	-
PSG502 Spare Sensor DN 16 KF,ext.body	-	-	350-907	-	-
PSG502-S传感器	-	-	350-900	-	-
PSG510 Spare Sensor DN 16 KF	-	-	-	350-930	-
PSG512 Spare Sensor DN 16 KF	-	-	-	-	350-940

附件

	PSG500 tungsten	PSG500-S tungsten, setpoints	PSG502-S nickel, setpoints	PSG510-S tungsten, setpoints, ceramic feedthroughs	PSG512-S nickel, setpoints, ceramic feedthroughs
卡箍 DN 10-16 ISO-KF	211-001	211-001	211-001	211-001	211-001

尺寸

