

Pirani / Bayard-Alpert Hot Cathode Gauge

The INFICON PBR 260 is a combination gauge that operates as two gauges in one single and compact unit. The leading measuring principle is a hot cathode gauge according the Bayard-Alpert principle, which will be completed and supported by a Pirani thermal conductivity measuring principle. The PBR 260 Pirani/ Bayard-Alpert hot cathode combi gauge measures from UHV range (5×10^{-10}) mbar to ATM range (1000 mbar). One of PBR 260 key benefits is its drop in compatibility with other manufacturers PBR 260 gauge types, thanks equal analog output signal and electrical interface used. This offers simple installation /exchange, setup and process integration. The PBR 260 Pirani/ Bayard-Alpert hot cathode combi gauge provides the most economical solution for obtaining affordable and reliable base pressure measurements on the market.

ADVANTAGES

- PBR 260 Pirani/Bayard-Alpert hot cathode combination gauge for general vacuum measurement and control in the ATM to UHV range with just one compact device
- Flange: DN 25 ISO-KF, DN 40 CF-R, DN 40 ISO-KF
- Maximum pressure applies to inert gases and temperatures of less then 55°C
- Highly accurate, excellent repeatability in the process range $10^{\text{-8}} \hdots 10^{\text{-2}} \mbox{ mbar}$
- Bayard-Alpert sensor ON/OFF automatically controlled by Pirani sensor
- · Long-life yttrium oxide coated iridium filament
- RoHS compliance
- Easy to exchange/ replace sensor head

Drop in compatible to other manufacturers PBR 260 Pirani/Bayard-Alpert hot cathode gauges

- Partnumber IGG27000 matches PT R27 000
- Partnumber IGG27001 matches PT R27 001
- Partnumber IGG27002 matches PT R27 002

APPLICATIONS

- General pressure measurement in Semiconductor and Analytical process environment
- · Optical and other industrial coating processes



PBR 260

PINFICON



ORDERING INFORMATION

Туре	PBR 260
DN 25 ISO-KF	IGG27000
DN 40 ISO-KF	IGG27001
DN 40 CF-F	IGG27002
Replacement sensor head 25 ISO-KF	IN846517-T
Replacement sensor head 40 ISO-KF	IN846518-T
Replacement sensor head 40 CF-R	IN846519-T

2



SPECIFICATIONS

		PBR 260
Measurement range	mbar	5 × 10 ⁻¹⁰ 1000
Bakeout temperature	°C	150
Accuracy 10 ⁻⁸ 10 ⁻² mbar	% of reading	15
Repeatability	% of reading	5
Supply Voltage	V DC	20 28
Supply Power consumption max.	W	16
Output signal		10
Pressure range	V	0.774 10
Sensor error below	V	0.5
Minimum load	kOhm	10
Temperature		
Operating	°C	0 +50
Storage	°C	-20 +70
Filament		tungsten
Cathode		iridium yttriated
Materials exposed to vacuum		Cu, Glass, NiFe, Mo, St. steel, NiCr
Pressure max.	bar	2
Cable length, max.	m	100
Flange		stainless steel
Internal volume		
DN 25 ISO-KF	cm ³	24
DN 40 ISO-KF	cm ³	24
DN 40 CF-R	cm ³	25
Weight		
DN 25 ISO-KF	g	285
DN 40 ISO-KF	g	315
DN 40 CF-R	g	550

3



DIMENSIONS

[mm]









Due to our continuing program of product improvements, specifications are subject to change without notice. The trademarks mentioned in this document are held by the companies that produce them.

tiba91e1-