Pirani/Bayard-Alpert combination HPT 200 (5 · 10-10 – 1000 hPa)

The HPT 200 gauge affords accurate measurements from $5 \cdot 10^{-10}$ hPa to atmospheric pressure. With its rugged metallic case and digital interface it is particularly suited for operation in vacuum and other systems.
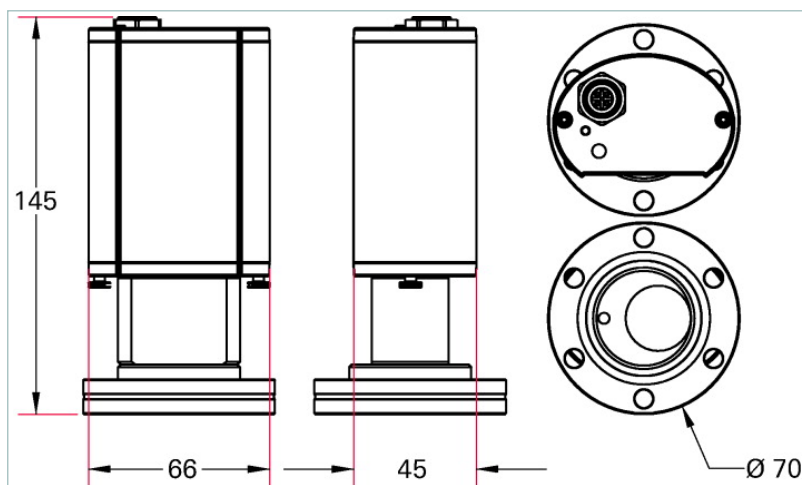

PFEIFFER VACUUM

HPT 200, DN 40 CF-F, RS-485, Profibus

- $5 \cdot 10^{-10}$ to 1000 hPa
- High security by two filaments
- High accuracy
- Profibus DP Interface (optional)
- Analog output and set points (optional)

PB = additionally with Profibus-DP interface

AR = additionally with analogue output and two switch-points

Similar Image

Dimensions

DN 1   DN 40 CF-F

Technical Data	HPT 200, DN 40 CF-F, RS-485, Profibus
Accuracy: % of measurement	$1 \cdot 10^{-8}$ – 1 hPa: ± 10 %, 20 – 1000 hPa: ± 30 %
Bakeout temperature max. at the flange	180 °C **|** 356 °F **|** 453 K
Filament	Iridium yttriated, twice
Interface: Connection	Digital RS-485, M12 f, 5-pole, Profibus DP, M12 f, 5-pole
Materials in contact with media	Tungsten, stainless steel, nickel, glass, ceramics
Measurement range max.	1,000 hPa **|** 750 Torr **|** 1,000 mbar
Measurement range min.	$5 \cdot 10^{-10}$ hPa **|** $3.75 \cdot 10^{-10}$ Torr **|** $5 \cdot 10^{-10}$ mbar
Measuring cycle	10 ms
Method of measurement	Pirani/Bayard-Alpert
Nominal diameter	DN 40 CF-F
Number of filaments	2
Pressure max.	4,000 hPa **|** 3,000 Torr **|** 4,000 mbar
Protection category	IP54
Repeatability: % of measurement	$1 \cdot 10^{-8}$ – $1 \cdot 10^{-2}$ hPa: ± 5%; $1 \cdot 10^{-2}$ – 10 hPa: ± 2 %
Seal	Metal
Sensor cable length max.	100 m
Supply: power consumption	11 W
Supply: to be secured by	1 AT
Supply: Voltage	24 V DC
Temperature: Operating	5-60 °C **|** 41-140 °F **|** 278-333 K
Temperature: Storage	-40-65 °C **|** -40-149 °F **|** 233-338 K
Weight	670 g

Order number	
Pirani/Bayard-Alpert combination HPT 200 (5 · 10^{-10} – 1000 hPa)	**PT R39 352**

Accessories	
Accessories CenterLine gauges and controllers	
Centering ring, with poral filter, FPM/stainless steel, DN 40 ISO-KF	**PF 117 240 -T**
Adapter and power switching components	
Adapter RS-485, M12, 4-pole - D-sub socket, 9-pole, 0.2 m	**PT 348 133 -T**
Connection cable, RS-485, M12/D-sub 9-pole, 3 m	**PT 348 223 -T**
M12 m plug 4-pole with screw terminals RS-485	**PT 348 106 -T**
Interface and extension cables	
Interface cable, M12 m straight/M12 m straight, 3 m	**PM 061 283 -T**
Mains- and supply cables	
Supply cable DigiLine, M12, 4-pole to TPS, 3 m	**PT 348 163 -T**
Profibus	
Plug and socket M12B for Profibus	**PM 051 927 -T**
Termination resistor M12B for Profibus	**P 4723 030**
Y-Connector M12B to Profibus	**P 4723 015**
Y-Connector with cable M12B to Profibus, 0.5 m	**P 4723 018**
RS-485	
Connector M12 to RS-485	**PM 061 270 -X**
Power separator for RS-485	**PT 348 132 -T**
PV TurboControl - Software for Pfeiffer Vacuum products with PV protocol	**PM 061 741**
Termination resistor for RS-485	**PT 348 105 -T**
USB converter to RS-485 interface	**PM 061 207 -T**
Y-Connector M12 to RS-485	**P 4723 010**
Soft- and Firmware	
DokuStar Plus software, 16 channels	**PT 882 501**
TPS-19" rack module	
TPS 111, mains pack 19" rack module 3HU	**PM 061 344 -T**
TPS wall rail fitting	
TPS 110, mains pack for wall/standard rail fitting	**PM 061 340 -T**