



# Pirani/Bayard-Alpert combination HPT 200 ( $5 \cdot 10^{-10}$ – 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.





Similar Image

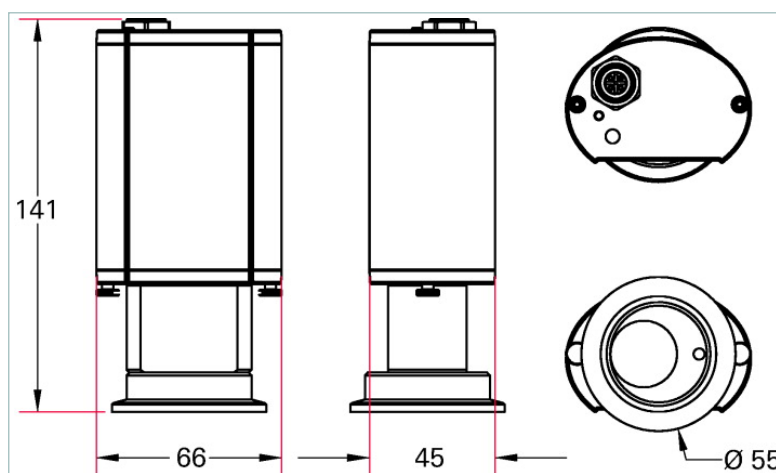
## HPT 200, DN 40 ISO-KF, RS-485

- $5 \cdot 10^{-10}$  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

### Dimensions



DN 1 DN 40 ISO-KF

Technical Data	HPT 200, DN 40 ISO-KF, RS-485
Accuracy: % of measurement	$1 \cdot 10^{-8} - 1 \text{ hPa}$ : $\pm 10 \%$ , $20 - 1000 \text{ hPa}$ : $\pm 30 \%$
Bakeout temperature max. at the flange	$180 \text{ }^{\circ}\text{C}$   $356 \text{ }^{\circ}\text{F}$   $453 \text{ K}$
Filament	Iridium yttriated, twice
Interface: Connection	Digital RS-485, M12 f, 5-pole
Materials in contact with media	Tungsten, stainless steel, nickel, glass, ceramics
Measurement range max.	$1,000 \text{ hPa}$   $750 \text{ Torr}$   $1,000 \text{ mbar}$
Measurement range min.	$5 \cdot 10^{-10} \text{ hPa}$   $3.75 \cdot 10^{-10} \text{ Torr}$   $5 \cdot 10^{-10} \text{ mbar}$
Measuring cycle	10 ms
Method of measurement	Pirani/Bayard-Alpert
Nominal diameter	DN 40 ISO-KF
Number of filaments	2
Pressure max.	$4,000 \text{ hPa}$   $3,000 \text{ Torr}$   $4,000 \text{ mbar}$
Protection category	IP54
Repeatability: % of measurement	$1 \cdot 10^{-8} - 1 \cdot 10^{-2} \text{ hPa}$ : $\pm 5\%$ ; $1 \cdot 10^{-2} - 10 \text{ hPa}$ : $\pm 2 \%$
Seal	Metal
Sensor cable length max.	100 m
Supply: power consumption	9.5 W
Supply: to be secured by	1 AT
Supply: Voltage	24 V DC
Temperature: Operating	$5-60 \text{ }^{\circ}\text{C}$   $41-140 \text{ }^{\circ}\text{F}$   $278-333 \text{ K}$
Temperature: Storage	$-40-65 \text{ }^{\circ}\text{C}$   $-40-149 \text{ }^{\circ}\text{F}$   $233-338 \text{ K}$
Weight	475 g

Order number	
Pirani/Bayard-Alpert combination HPT 200 (5 · 10 <sup>-10</sup> – 1000 hPa)	PT R39 150

Accessories	
<b>Accessories CenterLine gauges and controllers</b>	
Centering ring, with poral filter, FPM/stainless steel, DN 40 ISO-KF	PF 117 240 -T
<b>Adapter and power switching components</b>	
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
<b>Interface and extension cables</b>	
Interface cable, M12 m straight/M12 m straight, 3 m	PM 061 283 -T
<b>Mains- and supply cables</b>	
Supply cable DigiLine, M12, 4-pole to TPS, 3 m	PT 348 163 -T
<b>RS-485</b>	
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
<b>Soft- and Firmware</b>	
DokuStar Plus software, 16 channels	PT 882 501
<b>TPS-19" rack module</b>	
TPS 111, mains pack 19" rack module 3HU	PM 061 344 -T
<b>TPS wall rail fitting</b>	
TPS 110, mains pack for wall/standard rail fitting	PM 061 340 -T