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.
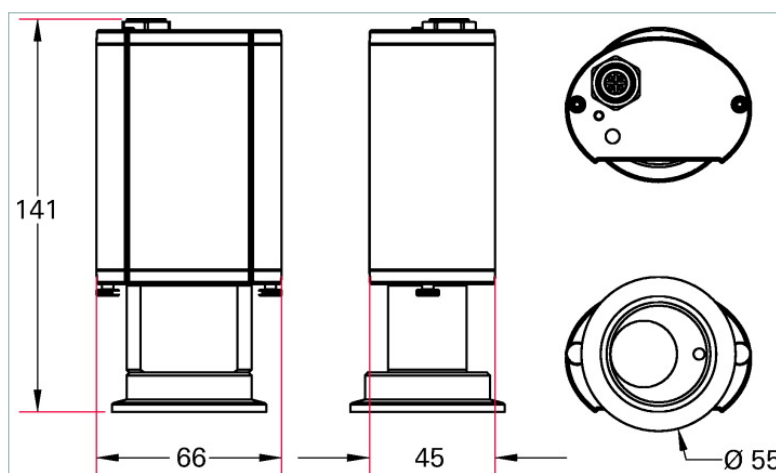
Hakuto 伯東

PFEIFFER VACUUM

HPT 200, DN 40 ISO-KF, 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

Dimensions

DN 1   DN 40 ISO-KF

Technical Data	HPT 200, DN 40 ISO-KF, 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 ISO-KF
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	475 g

Order number	
Pirani/Bayard-Alpert combination HPT 200 (5 · 10^{-10} – 1000 hPa)	**PT R39 152**

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**