A PASSION FOR PERFECTION

PFEIFFER VACUUM

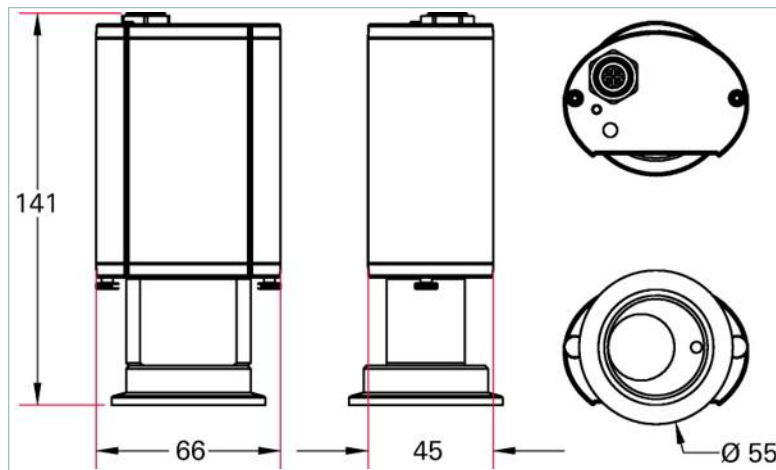# Pirani/Bayard-Alpert Gauge HPT 200 (5 · 10^{-10} – 1000 hPa)

The HPT 200 gauge affords accurate measurements from ultra high vacuum to atmospheric pressure. With its rugged metallic case and numerous interface options it is particularly suited for industrial applications.

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)
- DeviceNet Interface (optional)
- Analog output and set points (optional)

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 hPa: ± 10 %, 20 – 1000 hPa: ± 30 %
Bakeout temperature max. at the flange	180 °C	356 °F	453 K
Filament	Iridium yttriated, twice
Flange (in)	DN 40 ISO-KF
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 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
Number of filaments	2
Pressure max.	4,000 hPa	3,000 Torr	4,000 mbar
Protection category	IP 54
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: 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 Gauge HPT 200 ($5 \cdot 10^{-10}$ – 1000 hPa)	**PTR39150**

Accessories	
Adapter and power switching components	
Adapter RS-485, M12, 4-pole - D-sub socket, 9-pole, 0.2 m	**PT348133-T**
Bus termination for RS-485, M12	**PT348105-T**
Connection cable, RS-485, M12/D-sub 9-pole, 3 m	**PT348223-T**
Connector M12 to RS-485	**PM061270-X**
M12 m plug 4-pole with screw terminals RS-485	**PT348106-T**
Power separator RS-485, M12	**PT348132-T**
General accessories	
Interface cable, M12 m straight / M12 m straight, 3 m	**PM061283-T**
USB converter to RS-485 interface	**PM061207-T**
Y-Connector M12 to RS-485	**P4723010**
Mains- and supply cables	
Supply cable DigiLine, M12, 4-pole to TPS, 3 m	**PT348163-T**
Power supplies, control displays and drive units	
TPS 110, mains pack for wall/standard rail fitting	**PM061340-T**
TPS 111, mains pack 19" rack module 3HU	**PM061344-T**
Soft- and Firmware	
DokuStar Plus software, 16 channels	**PT882501**

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All data subject to change without prior notice. (01/14/2014)

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