

VACTEST TPP 701/901 D

Mobile gauges



Intuitive operation and handling

Large LCD display for visualization, integrated li-ion battery, rechargeable via USB-C

High performance

Excellent measurement accuracy due to Piezo-Pirani combination sensor, extended measurement range (1200 to $5 \cdot 10^{-5}$ mbar), absolute and relative pressure measurements, real-time clock data logger for multiple measurements and millions of data points, min. 100 h operating time

Reliable

Pirani with longlife spiral coil filament, integrated metal shield protects sensor from oil and solvent vapors, stable measurement points, optimized temperature compensation

Accessories, spare parts and options

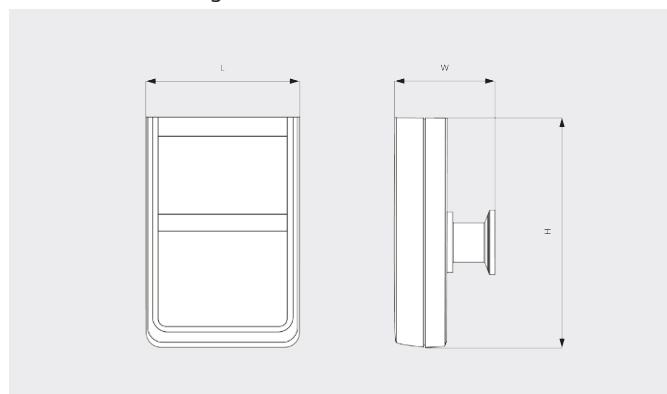
- Protective case
- Plug-in charger 5 V
- VACTEST Explorer
- Calibration certificate

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Dimensional drawing



	VACTEST TPP 701 D	VACTEST TPP 901 D
Measurement principle	Piezoresistive / Pirani	Piezoresistive / Pirani
Materials exposed to vacuum	Stainless steel 1.4305, nickel, tungsten, SiO ₂ , glass, SnAg solder, polyimide, epoxy	Stainless steel 1.4305, nickel, tungsten, SiO ₂ , glass, SnAg solder, polyimide, epoxy
Filament material	Tungsten	Tungsten
Measurement range absolute pressure	1200 ... 5 x10 ⁻⁵ mbar (900 ... 5x10 ⁻⁵ Torr)	1200 ... 5 x10 ⁻⁵ mbar (900 ... 5x10 ⁻⁵ Torr)
Measurement range relative pressure	max. -1060 ... +340 mbar (-795 ... +255 Torr)	max. -1060 ... +340 mbar (-795 ... +255 Torr)
Overpressure limit	10 bar abs.	10 bar abs.
Measurement uncertainty absolute pressure	1200 ... 40 mbar: 0.3% full scale, 40 ... 1 x10 ⁻³ mbar: 10% of reading	1200 ... 40 mbar: 0.3% full scale, 40 ... 1 x10 ⁻³ mbar: 10% of reading
Measurement uncertainty relative pressure	0.25% of span	0.25% of span
Repeatability of measurement	1200 ... 40 mbar: 0.1% full scale, 40 ... 0.01 mbar: 2% of reading	1200 ... 40 mbar: 0.1% full scale, 40 ... 0.01 mbar: 2% of reading
Resolution	1200 ... 1000 mbar: 1 mbar 1000 ... 2.0 mbar: 0.1 mbar 2.0 ... 1 x10 ⁻² mbar: 3 digits 1 x10 ⁻² ... 1 x10 ⁻⁴ mbar: 2 digits 1 x10 ⁻⁴ ... 5 x10 ⁻⁵ mbar: 1 digit	1200 ... 1000 mbar: 1 mbar 1000 ... 2.0 mbar: 0.1 mbar 2.0 ... 1 x10 ⁻² mbar: 3 digits 1 x10 ⁻² ... 1 x10 ⁻⁴ mbar: 2 digits 1 x10 ⁻⁴ ... 5 x10 ⁻⁵ mbar: 1 digit
Measuring rate	20 ms ... 60 s	20 ms ... 60 s
Serial interface	USB-C and Bluetooth	USB-C
Electrical connection	5 VDC via USB-C	5 VDC via USB-C
Supply voltage	Internal rechargeable lithium-ion battery, 5V	Internal rechargeable lithium-ion battery, 5V

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Min. battery operating time	> 100 h	> 100 h
Operating temperature	+5 ... +50 °C	+5 ... +50 °C
Protection class	IP 40	IP 40
Weight approx.	250 g	250 g
Dimensions (L x W x H)	70 x 46.4 x 105 mm	70 x 46.4 x 105 mm
Vacuum connection	DN 16 ISO-KF	DN 16 ISO-KF
Environment	Interior, degree of contamination max. PD 2 / Rel. humidity max. 80% up to 30 °C, max. 50% up to 40 °C / non-condensing	Interior, degree of contamination max. PD 2 / Rel. humidity max. 80% up to 30 °C, max. 50% up to 40 °C / non-condensing

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