

# 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

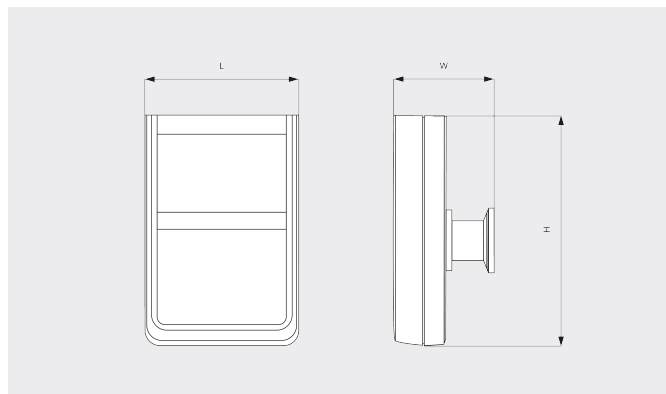
- Protective case
- Plug-in charger 5 V
- VACTEST Explorer
- Calibration certificate

# VACTEST TPP 701/901 D

Mobile gauges



Dimensional drawing



	VACTEST TPP 701 D	VACTEST TPP 901 D
<b>Measurement principle</b>	Piezoresistive / Pirani	Piezoresistive / Pirani
<b>Materials exposed to vacuum</b>	Stainless steel 1.4305, nickel, tungsten, SiO <sub>2</sub> , glass, SnAg solder, polyimid, epoxy	Stainless steel 1.4305, nickel, tungsten, SiO <sub>2</sub> , glass, SnAg solder, polyimid, epoxy
<b>Filament material</b>	Tungsten	Tungsten
<b>Measurement range</b>	Absolute pressure: 1200 ... 5 x10 <sup>-5</sup> mbar (900 ... 5x10 <sup>-5</sup> Torr) Relative pressure: max. -1060 ... +340 mbar (-795 ... +255 Torr)	Absolute pressure: 1200 ... 5 x10 <sup>-5</sup> mbar (900 ... 5 x10 <sup>-5</sup> Torr) Relative pressure: max. -1060 ... +340 mbar (-795 ... +255 Torr)
<b>Overpressure limit</b>	10 bar abs.	10 bar abs.
<b>Measurement uncertainty</b>	Absolute pressure: 1200 ... 40 mbar: 0.3% full scale, 40 ... 1 x10 <sup>-3</sup> mbar: 10% of reading Relative pressure: 0.25% of span	Absolute pressure: 1200 ... 40 mbar: 0.3% full scale, 40 ... 1 x10 <sup>-3</sup> mbar: 10% of reading Relative pressure: 0.25% of span
<b>Repeatability of measurement</b>	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
<b>Resolution</b>	1200 ... 1000 mbar: 1 mbar   1000 ... 2.0 mbar: 0.1 mbar   2.0 ... 1 x10 <sup>-2</sup> mbar: 3 digits   1 x10 <sup>-2</sup> ... 1 x10 <sup>-4</sup> mbar: 2 digits   1 x10 <sup>-4</sup> ... 5 x10 <sup>-5</sup> mbar: 1 digit	1200 ... 1000 mbar: 1 mbar   1000 ... 2.0 mbar: 0.1 mbar   2.0 ... 1 x10 <sup>-2</sup> mbar: 3 digits   1 x10 <sup>-2</sup> ... 1 x10 <sup>-4</sup> mbar: 2 digits   1 x10 <sup>-4</sup> ... 5 x10 <sup>-5</sup> mbar: 1 digit
<b>Measuring rate</b>	20 ms ... 60 s	20 ms ... 60 s
<b>Serial interface</b>	USB-C and Bluetooth	USB-C
<b>Electrical connection</b>	5 VDC via USB-C	5 VDC via USB-C
<b>Supply voltage</b>	Internal rechargeable lithium-ion battery, 5V	Internal rechargeable lithium-ion battery, 5V
<b>Min. battery operating time</b>	> 100 h	> 100 h
<b>Operating temperature</b>	+5 ... +50 °C	+5 ... +50 °C

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VACUUM SOLUTIONS

	VACTEST TPP 701 D	VACTEST TPP 901 D
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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