

# VACTEST TPP 701/901 D

Mobile gauges



**VACUUM SOLUTIONS**

Part of the **BUSCH** GROUP



## 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

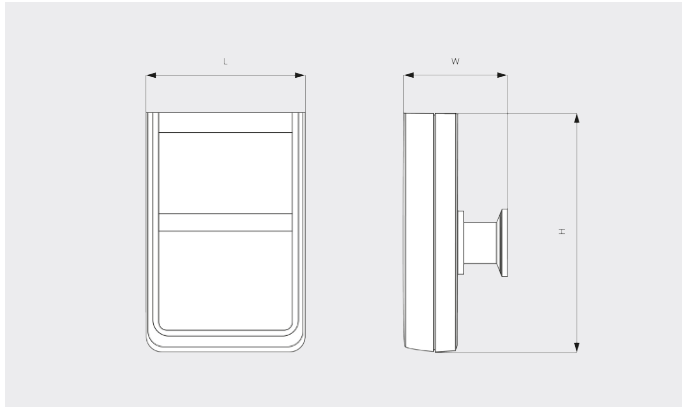
Mobile gauges



**VACUUM SOLUTIONS**

Part of the **BUSCH GROUP**

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 <sub>2</sub> , glass, SnAg solder, polyimide, epoxy                                                                                                                              | Stainless steel 1.4305, nickel, tungsten, SiO <sub>2</sub> , glass, SnAg solder, polyimide, epoxy                                                                                                                              |
| Filament material                         | Tungsten                                                                                                                                                                                                                       | Tungsten                                                                                                                                                                                                                       |
| Measurement range absolute pressure       | 1200 ... 5 x10 <sup>-5</sup> mbar (900 ... 5x10 <sup>-5</sup> Torr)                                                                                                                                                            | 1200 ... 5 x10 <sup>-5</sup> mbar (900 ... 5x10 <sup>-5</sup> 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 <sup>-3</sup> mbar: 10% of reading                                                                                                                                             | 1200 ... 40 mbar: 0.3% full scale, 40 ... 1 x10 <sup>-3</sup> 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 <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 |
| Measuring rate                            | 20 ms ... 60 s                                                                                                                                                                                                                 | 20 ms ... 60 s                                                                                                                                                                                                                 |

# VACTEST TPP 701/901 D

Mobile gauges



**VACUUM SOLUTIONS**

Part of the **BUSCH** GROUP

|                             | VACTEST TPP 701 D                                                                                                       | VACTEST TPP 901 D                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 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                                                                           |
| 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 |

## DO YOU WANT TO KNOW MORE?

Get in touch with us directly!  
[info@busch.ca](mailto:info@busch.ca) or +1 800 363 6360



CONTACT FORM



CALL NOW