

# VACTEST DPP 400 / DPP 400 D

Digital transmitter



VACUUM SOLUTIONS



## Intelligent

Extended measurement range (1200 to  $1 \cdot 10^{-4}$  mbar), state-of-the-art microcontroller technology, fully customizable parameters, combination of Piezo and Pirani sensor

## Reliable

High industrial standards, robust construction

## Efficient

Modular design, plug and play sensor for maximum uptime

Accessories, spare parts and options

- Spare sensor
- Active Sensor Controller
- Connecting cable
- RS485 Interface converter to Bluetooth
- RS485 Interface to USB
- Power supply
- VACTEST Explorer Pro
- Calibration certificate

# VACTEST DPP 400 / DPP 400 D

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|                              | VACTEST DPP 400  | VACTEST DPP 400 D  |
|------------------------------|--|--|
| Measurement principle        | Piezoresistive / Pirani  | Piezoresistive / Pirani  |
| Materials exposed to vacuum  | Stainless steel 1.4307, nickel, gold, silicon oxide, tungsten, glass | Stainless steel 1.4307, nickel, gold, silicon oxide, tungsten, glass |
| Filament material            | Tungsten   | Tungsten   |
| Measurement range            | 1200-1 · 10 <sup>-4</sup> mbar                                       | 1200-1 · 10 <sup>-4</sup> mbar                                       |
| Overpressure limit           | 4 bar abs.   | 4 bar abs.   |
| Measurement uncertainty      | < 0.3% full scale (1200-40 mbar)                                     | < 0.3% full scale (1200-40 mbar)                                     |
| Measurement uncertainty      | < 10% of reading (40-2 · 10 <sup>-3</sup> mbar)                      | < 10% of reading (40-2 · 10 <sup>-3</sup> mbar)                      |
| Repeatability of measurement | ±0.1% full scale (1200-40 mbar)                                      | ±0.1% full scale (1200-40 mbar)                                      |
| Repeatability of measurement | ±2% of reading (40-2 · 10 <sup>-3</sup> mbar)                        | ±2% of reading (40-2 · 10 <sup>-3</sup> mbar)                        |
| Leakage rate                 | < 5 · 10 <sup>-10</sup> mbar · l/s                                   | < 5 · 10 <sup>-10</sup> mbar · l/s                                   |
| Reaction time                | < 40 ms  | < 40 ms  |
| Serial interface             | RS485  | RS485  |
| Electrical connection        | D-Sub, 15 poles, male  | D-Sub, 15 poles, male  |
| Supply voltage               | 20-30 V  | 20-30 V  |
| Max. power consumption       | 2.5 W (relays)   | 2.5 / 0.8 W (relays / display)                                       |
| Output signal                | 0-10 V, RS485  | 0-10 V, RS485  |
| Setpoint relay               | 2 dry contacts   | 2 dry contacts   |
| Relay contact rating         | 2A, 50 VAC / 2A, 30 VDC, max. 60 VA                                  | 2A, 50 VAC / 2A, 30 VDC, max. 60 VA                                  |
| Operating temperature        | +5 ... +60 °C  | +5 ... +60 °C  |
| Max. bake-out temperature    | 150 °C   | 150 °C   |
| Protection class             | IP40 (IP54 with appropriate D-Sub connector)                         | IP40 (IP54 with appropriate D-Sub connector)                         |
| Weight approx.               | 195 g  | 195 g  |
| Dimensions (L x W x H)       | 45 x 66 x 99 mm  | 45 x 66 x 99 mm  |
| Vacuum connection            | DN 16 ISO-KF   | DN 16 ISO-KF   |
| Display                      | Without display  | With display   |

## DO YOU WANT TO KNOW MORE?

Get in touch with us directly!  
[sales@busch.ie](mailto:sales@busch.ie) or +353 (0)1 832 13 30



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