

# 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

# VATEST DPP 400 / DPP 400 D

Digital transmitter



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|                              | VATEST DPP 400                                                       | VATEST 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 × 66 × 99 mm                                                      | 45 × 66 × 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!

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