

# VACTEST DTP 400 / DTP 400 D

Digital transmitter



**VACUUM SOLUTIONS**

Part of the **BUSCH** GROUP



## Intelligent

Measurement range (1000 to  $1 \cdot 10^{-4}$  mbar), state-of-the-art microcontroller technology, fully customizable parameters

## Reliable

High industrial standards, robust construction, protected and robust spiral coil filament

## Efficient

Modular design, plug and play sensor for maximum uptime

Accessories, spare parts and options

- Replacement sensor
- Active Sensor Controller
- Connecting cable
- RS485 interface converter to Bluetooth
- RS485 interface converter to USB
- Electrical power supply
- Calibration certificate
- VACTEST Explorer Pro

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|                              | VACTEST DTP 400                                                                                                            | VACTEST DTP 400 D                                                                                                          |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Measurement principle        | Pirani                                                                                                                     | Pirani                                                                                                                     |
| Materials exposed to vacuum  | Stainless steel 1.4307, nickel, tungsten, glass                                                                            | Stainless steel 1.4307, nickel, tungsten, glass                                                                            |
| Filament material            | Tungsten                                                                                                                   | Tungsten                                                                                                                   |
| Measurement range            | 1000–1 · 10 <sup>-4</sup> mbar                                                                                             | 1000–1 · 10 <sup>-4</sup> mbar                                                                                             |
| Overpressure limit           | 10 bar abs.                                                                                                                | 10 bar abs.                                                                                                                |
| Measurement uncertainty      | < 30% of reading (1000–20 mbar), < 10% of reading (20–2 · 10 <sup>-3</sup> mbar), < factor 2 (< 2 · 10 <sup>-3</sup> mbar) | < 30% of reading (1000–20 mbar), < 10% of reading (20–2 · 10 <sup>-3</sup> mbar), < factor 2 (< 2 · 10 <sup>-3</sup> mbar) |
| Repeatability of measurement | ±2% of reading (20–2 · 10 <sup>-3</sup> mbar)                                                                              | ±2% of reading (20–2 · 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.               | 190 g                                                                                                                      | 190 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                                                                                                               |

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Get in touch with us directly!  
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