

# VACTEST DTP 400 / DTP 400 D



## 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

- 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

# VACTEST DTP 400 / DTP 400 D



## Dimensional drawing

The following technical values refer to ISO Hz

	VACTEST DTP 400	VACTEST DTP 400 D
<b>Measurement principle</b>	Pirani	Pirani
<b>Materials exposed to vacuum</b>	Stainless steel 1.4307, nickel, tungsten, glass	Stainless steel 1.4307, nickel, tungsten, glass
<b>Filament material</b>	Tungsten	Tungsten
<b>Display</b>	Without display	With display
<b>Measurement range</b>	1000–1 · 10 <sup>-4</sup> mbar	1000–1 · 10 <sup>-4</sup> mbar
<b>Overpressure limit</b>	10 bar abs.	10 bar abs.
<b>Measurement uncertainty</b>	< 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)
<b>Repeatability of measurement</b>	±2% of reading (20–2 · 10 <sup>-3</sup> mbar)	±2% of reading (20–2 · 10 <sup>-3</sup> mbar)
<b>Leakage rate</b>	< 5 · 10 <sup>-10</sup> mbar · l/s	< 5 · 10 <sup>-10</sup> mbar · l/s
<b>Reaction time</b>	< 40 ms	< 40 ms
<b>Serial interface</b>	RS485	RS485
<b>Electrical connection</b>	D-Sub, 15 poles, male	D-Sub, 15 poles, male
<b>Supply voltage</b>	20–30 V	20–30 V
<b>Max. power consumption</b>	2.5 W (relays)	2.5 / 0.8 W (relays / display)
<b>Output signal</b>	0–10 V, RS485	0–10 V, RS485
<b>Setpoint relay</b>	2 dry contacts	2 dry contacts
<b>Relay contact rating</b>	2A, 50 VAC / 2A, 30 VDC, max. 60 VA	2A, 50 VAC / 2A, 30 VDC, max. 60 VA
<b>Operating temperature</b>	+5 ... +60 °C	+5 ... +60 °C
<b>Max. bake-out temperature</b>	150 °C	150 °C
<b>Protection class</b>	IP40 (IP54 with appropriate D-Sub connector)	IP40 (IP54 with appropriate D-Sub connector)
<b>Weight approx.</b>	190 g	190 g
<b>Dimensions (L x W x H)</b>	45 x 66 x 99 mm	45 x 66 x 99 mm
<b>Vacuum connection</b>	DN 16 ISO-KF	DN 16 ISO-KF

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**DO YOU WANT TO KNOW MORE**

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