

# VACTEST DTP 400 / DTP 400 D

Digital transmitter



VACUUM SOLUTIONS



## 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

# VACTEST DTP 400 / DTP 400 D

Digital transmitter



	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

## DO YOU WANT TO KNOW MORE?

Get in touch with us directly!  
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