

VACTEST DTP 400 / DTP 400 D

Digital transmitter



VACUUM SOLUTIONS

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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 ⁻⁴ mbar	1000–1 · 10 ⁻⁴ mbar
Overpressure limit	10 bar abs.	10 bar abs.
Measurement uncertainty	< 30% of reading (1000–20 mbar), < 10% of reading (20–2 · 10 ⁻³ mbar), < factor 2 (< 2 · 10 ⁻³ mbar)	< 30% of reading (1000–20 mbar), < 10% of reading (20–2 · 10 ⁻³ mbar), < factor 2 (< 2 · 10 ⁻³ mbar)
Repeatability of measurement	±2% of reading (20–2 · 10 ⁻³ mbar)	±2% of reading (20–2 · 10 ⁻³ mbar)
Leakage rate	< 5 · 10 ⁻¹⁰ mbar · l/s	< 5 · 10 ⁻¹⁰ 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 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

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