

VACTEST DTP 400 C / DTP 400 DC

Digital transmitter



VACUUM SOLUTIONS

Part of the **BUSCH** GROUP



Intelligent

Measurement range (1000 to $5 \cdot 10^{-4}$ mbar), state-of-the-art microcontroller technology, fully customizable parameters

Reliable

High industrial standards, robust construction, optional platinum / rhodium filament for corrosive applications

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 C	VACTEST DTP 400 DC
Measurement principle	Pirani	Pirani
Materials exposed to vacuum	Stainless steel 1.4307, nickel, platinum / rhodium, glass	Stainless steel 1.4307, nickel, platinum / rhodium, glass
Filament material	Platinum / Rhodium	Platinum / Rhodium
Measurement range	1000-5 · 10 ⁻⁴ mbar	1000-5 · 10 ⁻⁴ mbar
Overpressure limit	10 bar abs.	10 bar abs.
Measurement uncertainty	< 30% of reading (1000-10 mbar), < 10% of reading (10-1 · 10 ⁻² mbar), < factor 2 (< 1 · 10 ⁻² mbar)	< 30% of reading (1000-10 mbar), < 10% of reading (10-1 · 10 ⁻² mbar), < factor 2 (< 1 · 10 ⁻² mbar)
Repeatability of measurement	±5% of reading (10-1 · 10 ⁻² mbar)	±5% of reading (10-1 · 10 ⁻² 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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