

VACTEST DPH 400 D

Digital transmitter



VACUUM SOLUTIONS

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Intelligent

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

Reliable

High industrial standards, robust design, Bayard-Alpert principle with double filaments for extended lifetime and high reliability

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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	VATEST DPH 400 D	VATEST DPH 400 D
Measurement principle	Pirani / Bayard-Alpert	Pirani / Bayard-Alpert
Materials exposed to vacuum	Stainless steel 1.4307, Ni, W, Pt, yttrium coated iridium, glass	Stainless steel 1.4307, Ni, W, Pt, yttrium coated iridium, glass
Number of filaments	1 (Pirani) / 2 (Bayard-Alpert)	1 (Pirani) / 2 (Bayard-Alpert)
Filament material	Tungsten (Pirani) / yttrium coated iridium (Bayard-Alpert)	Tungsten (Pirani) / yttrium coated iridium (Bayard-Alpert)
Measurement range	1000–5 · 10 ⁻¹⁰ mbar	1000–5 · 10 ⁻¹⁰ mbar
Overpressure limit	4 bar abs.	4 bar abs.
Measurement uncertainty	< 30% of reading (1000–10 mbar), < 10% of reading (10–1 · 10 ⁻⁸ mbar)	< 30% of reading (1000–10 mbar), < 10% of reading (10–1 · 10 ⁻⁸ mbar)
Repeatability of measurement	±2% of reading (10–1 · 10 ⁻² mbar), ±5% of reading (1 · 10 ⁻² –1 · 10 ⁻⁸ mbar)	±2% of reading (10–1 · 10 ⁻² mbar), ±5% of reading (1 · 10 ⁻² –1 · 10 ⁻⁸ mbar)
Leakage rate	< 5 · 10 ⁻¹⁰ mbar · l/s	< 5 · 10 ⁻¹⁰ mbar · l/s
Reaction time	< 50 ms	< 50 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	9 / 0.8 W (relays / display)	9 / 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	180 °C	180 °C
Weight approx.	475 g	475 g
Dimensions (L x W x H)	45 × 66 × 141 mm	45 × 66 × 141 mm
Vacuum connection	DN 25 ISO-KF	DN 40 ISO-KF
Display	With display	With display

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