

VACTEST DPH 400 D

Digital transmitter



VACUUM SOLUTIONS



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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| | VACTEST DPH 400 D | VACTEST 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 |

DO YOU WANT TO KNOW MORE?

Get in touch with us directly!
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