

VACTEST DPC 400 / DPC 400 D

Digital transmitter



VACUUM SOLUTIONS



Intelligent

Extended measurement range (1000 to $5 \cdot 10^{-9}$ mbar), state-of-the-art microcontroller technology, fully customizable parameters

Reliable

High industrial standards, robust construction

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 DPC 400 | VACTEST DPC 400 | VACTEST DPC 400 D | VACTEST DPC 400 D |
|------------------------------|--|--|--|--|
| Measurement principle | Pirani / Inverted magnetron | Pirani / Inverted magnetron | Pirani / Inverted magnetron | Pirani / Inverted magnetron |
| Materials exposed to vacuum | Stainless steel 1.4307, nickel, tungsten, molybdenum, glass, ceramic | Stainless steel 1.4307, nickel, tungsten, molybdenum, glass, ceramic | Stainless steel 1.4307, nickel, tungsten, molybdenum, glass, ceramic | Stainless steel 1.4307, nickel, tungsten, molybdenum, glass, ceramic |
| Filament material | Tungsten | Tungsten | Tungsten | Tungsten |
| Measurement range | 1000-5 · 10 ⁻⁹ mbar | 1000-5 · 10 ⁻⁹ mbar | 1000-5 · 10 ⁻⁹ mbar | 1000-5 · 10 ⁻⁹ mbar |
| Overpressure limit | 10 bar abs. | 10 bar abs. | 10 bar abs. | 10 bar abs. |
| Measurement uncertainty | < 30% of reading (1000-10 mbar), < 10% of reading (10-2 · 10 ⁻³ mbar), < 25% of reading (2 · 10 ⁻³ -1 · 10 ⁻⁸ mbar) | < 30% of reading (1000-10 mbar), < 10% of reading (10-2 · 10 ⁻³ mbar), < 25% of reading (2 · 10 ⁻³ -1 · 10 ⁻⁸ mbar) | < 30% of reading (1000-10 mbar), < 10% of reading (10-2 · 10 ⁻³ mbar), < 25% of reading (2 · 10 ⁻³ -1 · 10 ⁻⁸ mbar) | < 30% of reading (1000-10 mbar), < 10% of reading (10-2 · 10 ⁻³ mbar), < 25% of reading (2 · 10 ⁻³ -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) | ±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 | < 5 · 10 ⁻¹⁰ mbar · l/s | < 5 · 10 ⁻¹⁰ mbar · l/s |
| Reaction time | < 50 ms | < 50 ms | < 50 ms | < 50 ms |
| Serial interface | RS485 | RS485 | RS485 | RS485 |
| Electrical connection | D-Sub, 15 poles, male | D-Sub, 15 poles, male | D-Sub, 15 poles, male | D-Sub, 15 poles, male |
| Supply voltage | 20-30 V | 20-30 V | 20-30 V | 20-30 V |
| Cathode voltage | 2.5 kV | 2.5 kV | 2.5 kV | 2.5 kV |
| Max. power consumption | 3 W (relays) | 3 W (relays) | 3 / 0.8 W (relays / display) | 3 / 0.8 W (relays / display) |
| Output signal | 0-10 V, RS485 | 0-10 V, RS485 | 0-10 V, RS485 | 0-10 V, RS485 |
| Setpoint relay | 2 dry contacts | 2 dry contacts | 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 | 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 | +5 ... +60 °C | +5 ... +60 °C |
| Max. bake-out temperature | 160 °C | 160 °C | 160 °C | 160 °C |
| Protection class | IP40 (IP54 with appropriate D-Sub connector) | IP40 (IP54 with appropriate D-Sub connector) | IP40 (IP54 with appropriate D-Sub connector) | IP40 (IP54 with appropriate D-Sub connector) |
| Weight approx. | 555 g | 555 g | 555 g | 555 g |
| Dimensions (L x W x H) | 45 × 66 × 139 mm | 45 × 66 × 139 mm | 45 × 66 × 139 mm | 45 × 66 × 139 mm |
| Vacuum connection | DN 25 ISO-KF | DN 40 ISO-KF | DN 25 ISO-KF | DN 40 ISO-KF |
| Display | Without display | Without display | With display | With display |

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