

VACTEST DCC 400 / DCC 400 D

Digital transmitter



VACUUM SOLUTIONS



Intelligent

Measurement range ($2 \cdot 10^{-3}$ mbar to $5 \cdot 10^{-9}$ mbar), state-of-the-art microcontroller technology, fully customizable parameters

Reliable

High industrial standards, robust construction, insensitive to contamination and oil vapors

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 DCC 400 | VACTEST DCC 400 | VACTEST DCC 400 D | VACTEST DCC 400 D |
|-------------------------------------|--|--|--|--|
| Measurement principle | Inverted magnetron | Inverted magnetron | Inverted magnetron | 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 |
| Measurement range | $2 \cdot 10^{-3}$ – $5 \cdot 10^{-9}$ mbar | $2 \cdot 10^{-3}$ – $5 \cdot 10^{-9}$ mbar | $2 \cdot 10^{-3}$ – $5 \cdot 10^{-9}$ mbar | $2 \cdot 10^{-3}$ – $5 \cdot 10^{-9}$ mbar |
| Overpressure limit | 10 bar abs. | 10 bar abs. | 10 bar abs. | 10 bar abs. |
| Measurement uncertainty | < 25% of reading ($2 \cdot 10^{-3}$ – $1 \cdot 10^{-9}$ mbar) | < 25% of reading ($2 \cdot 10^{-3}$ – $1 \cdot 10^{-9}$ mbar) | < 25% of reading ($2 \cdot 10^{-3}$ – $1 \cdot 10^{-9}$ mbar) | < 25% of reading ($2 \cdot 10^{-3}$ – $1 \cdot 10^{-8}$ mbar) |
| Repeatability of measurement | $\pm 5\%$ of reading ($2 \cdot 10^{-3}$ – $1 \cdot 10^{-8}$ mbar) | $\pm 5\%$ of reading ($2 \cdot 10^{-3}$ – $1 \cdot 10^{-8}$ mbar) | $\pm 5\%$ of reading ($2 \cdot 10^{-3}$ – $1 \cdot 10^{-8}$ mbar) | $\pm 5\%$ of reading ($2 \cdot 10^{-3}$ – $1 \cdot 10^{-8}$ mbar) |
| Leakage rate | $< 5 \cdot 10^{-10}$ mbar · l/s | $< 5 \cdot 10^{-10}$ mbar · l/s | $< 5 \cdot 10^{-10}$ mbar · l/s | $< 5 \cdot 10^{-10}$ 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 |

DO YOU WANT TO KNOW MORE?

Get in touch with us directly!
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