VACTEST DPC 400 / DPC 400 D

Digital transmitter

VACUUM SOLUTIONS

Intelligent

Extended measurement range (1000 to 5 · 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

VACTEST DPC 400 / DPC 400 D

Digital transmitter

VACUUM SOLUTIONS

	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

VACTEST DPC 400 / DPC 400 D

Digital transmitter

VACUUM SOLUTIONS

	VACTEST DPC 400	VACTEST DPC 400	VACTEST DPC 400 D	VACTEST DPC 400 D
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!
info@busch.ca or **+1 800 363 6360**

CONTACT FORM

CALL NOW