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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VACUUM SOLUTIONS

	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 ($2 \cdot 10^{-3}$–$1 \cdot 10^{-8}$ mbar)	< 25% of reading ($2 \cdot 10^{-3}$–$1 \cdot 10^{-8}$ mbar)	< 25% of reading ($2 \cdot 10^{-3}$–$1 \cdot 10^{-8}$ mbar)	< 25% of reading ($2 \cdot 10^{-3}$–$1 \cdot 10^{-8}$ mbar)
Repeatability of measurement	±5% of reading ($2 \cdot 10^{-3}$–$1 \cdot 10^{-8}$ mbar)	±5% of reading ($2 \cdot 10^{-3}$–$1 \cdot 10^{-8}$ mbar)	±5% of reading ($2 \cdot 10^{-3}$–$1 \cdot 10^{-8}$ mbar)	±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!
sales@busch.ae or **+971 6552 8654**

CONTACT FORM

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