



VGC501, VGC502, VGC503

Vacuum Gauge Controller



VGC501

VGC502

VGC503

Sustainable solution for process measurement, control and data log

Compatible to the wide range of INFICON active gauges, the new VGC50x series of controllers are able to monitor and data log

ADVANTAGES

- Simple operation with dot matrix menu guided display for parameter, sensor or general settings
- Very bright and clear display for long distance instrument read-out
- Bar graph display with setpoint's or pressure vs. time display
- Data log and parameter log function with USB port (rear) and USB stick (front)
- Ethernet interface
- Firmware upgrade available online or with USB stick.
- Two free definable setpoints per each channel with adjustable hysteresis
- High resolution – 16 bit A/D converter
- Automatic identification of the INFICON gauges
- Programmable 0 to 10 V chart recorder output with logarithmic / linear characteristics for single gauge or gauge combination (only VGC502 and VGC503)

ORDERING INFORMATION

Type	VGC501	VGC502	VGC503
Vacuum Gauge Controller	398-481	398-482	398-483
Adapter rack mount 2HE / 3HE	498-499	–	–

ACCESSORIES

Gauges	PCG, PEG, PSG, MAG, MPG, Porter	BCG, BPG, HPG, CGD-D	CDG (unheated)
Signal read out and communication	analog only	digital RS232 / analog	analog only
Cable connectors	FCC / FCC	D-Sub ¹⁾ / D-Sub ¹⁾	FCC / D-Sub ¹⁾

Cable to VGC50x in m (ft)

	398-500	398-520	398-540
3 (9.0)			
5 (16.5)	398-501	398-521	398-541
10 (33.0)	398-502	398-522	398-542
15 (49.5)	398-503	398-523	398-543
20 (66.0)	398-504	398-524	398-544
30 (99.0)	398-505	398-525	398-545

Other lengths on request

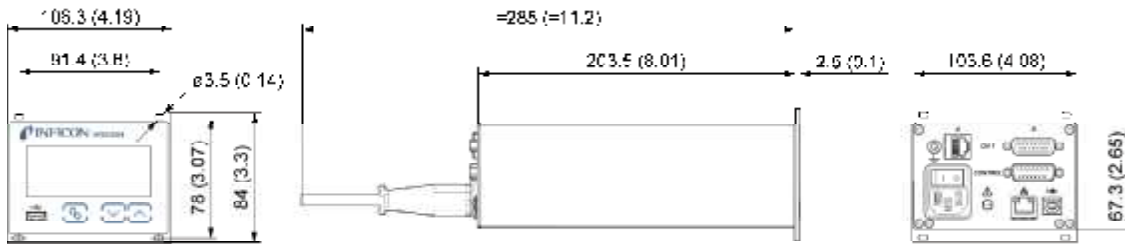
¹⁾ D-Sub 15-pin

SPECIFICATIONS

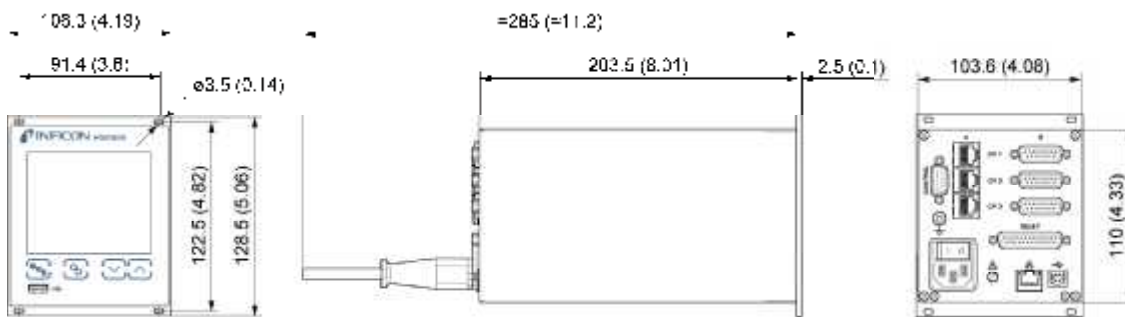
Type		VGC501	VGC502	VGC503
Measurement channels		1	2	3
Display		LCD, LED backlight		
Measurement rate	1/s	10		
Connectable gauges with display range				
CDG (A/D)	Torr	1×10 ⁻³ ×F.S. ... 1×F.S.		
PCG	mbar / Torr	5×10 ⁻⁴ ... 1500 / 3.75×10 ⁻⁴ ... 1125		
PSG	mbar / Torr	5×10 ⁻⁴ ... 1000 / 3.75×10 ⁻⁴ ... 750		
MPG	mbar / Torr	1×10 ⁻⁹ ... 1000 / 3.75×10 ⁻⁹ ... 750		
PEG	mbar / Torr	1×10 ⁻⁹ ... 1×10 ⁻² / 7.5×10 ⁻¹⁰ ... 7.5×10 ⁻³		
MAG	mbar / Torr	1×10 ⁻⁹ ... 1×10 ⁻² / 7.5×10 ⁻¹⁰ ... 7.5×10 ⁻³		
BCG	mbar / Torr	5×10 ⁻¹⁰ ... 1500 / 3.75×10 ⁻¹⁰ ... 1125		
BPG	mbar / Torr	5×10 ⁻¹⁰ ... 1000 / 3.75×10 ⁻¹⁰ ... 750		
HPG	mbar / Torr	2×10 ⁻⁶ ... 1000 / 1.5×10 ⁻⁶ ... 750		
Measurement unit (selectable)		mbar, Torr, Pa, hPa, Micron, V		
Setpoints				
Setpoint relays		1	4	6
Channel assignment		1	1 or 2	1, 2 or 3
Adjustment range		sensor dependent		
Hysteresis		adjustable		
Relay contact		floating changeover contact		
Contact rating	V (ac) / A V (dc) / A	30 / 1 60 / 0.5	30 / 1 60 / 0.5	30 / 1 60 / 0.5
Connector		D-Sub, 15-pin, male	D-Sub, 25-pin, female	D-Sub, 25-pin, female
Analog output				
Range	V	0 ... 10.3, sensor analog output signal		
Analog output		1	2	3
Programmable analog output		–	1	1
Connector		D-Sub, 15-pin, male	D-Sub, 9-pin, male	D-Sub, 9-pin, male
Interface (digital)		USB slave, master and Ethernet		
Connector		USB Type A (stick), USB Type B, FCC68/RJ45		
Power				
Supply	V (ac)	100 ... 240	100 ... 240	100 ... 240
Frequency	Hz	50 ... 60	50 ... 60	50 ... 60
Consumption	W	≤45	≤65	≤90
Operation temperature (ambiance)	°C	+5 ... +50		

DIMENSIONS

VGC501 mm (inch)



VGC502, VGC503 mm (inch)



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Due to our continuing program of product improvements, specifications are subject to change without notice.

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