

## InstruTech - VGC-301 Convection Vacuum Gauge Controller

### Features

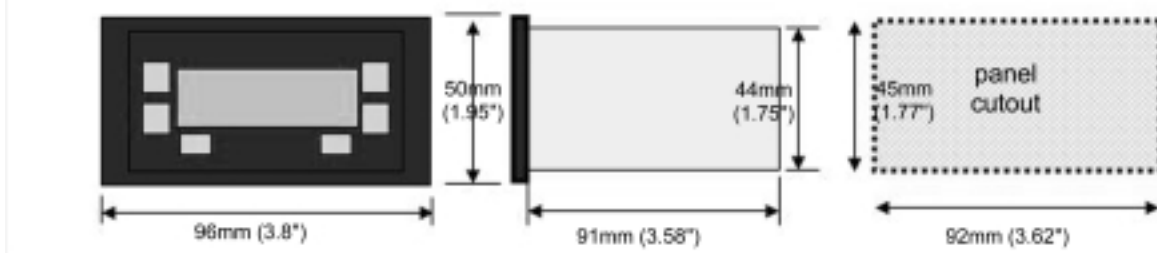
- Includes two setpoint, user-selectable analog output, and RS232/485 interfaces.
- Analog output is configurable as a non-linear S-curve, log-linear, or user-scalable linear.
- Wide measuring range lets you monitor your vacuum system from  $10^{-4}$  to 1000 Torr with a single gauge.



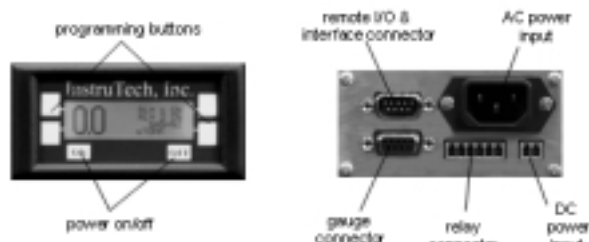
The VGC-301 vacuum gauge controller is a convenient and inexpensive power supply and readout instrument for a CVG "Worker Bee" convection vacuum gauge. The VGC-301 is powered by 12-30 VDC, or by its self-contained universal 100-240VAC supply.

**Compatibility:** Signals and relay functions are the same as found on similar convection gauge controllers from other manufacturers. The VGC-301, CVG gauge, and gauge cable can be directly interchanged with Granville-Phillips 375 Controller, 275 Convectron® gauge, and gauge cable. (Remote interface, relay and power connectors are different.)

### Controls and Connections



Specifications	
Measurement range	$1 \times 10^{-4}$ to 1000 torr $1 \times 10^{-4}$ to 1333 mbar $1 \times 10^{-2}$ Pa to 133 kPa
Resolution	$1 \times 10^{-4}$ Torr / $1 \times 10^{-4}$ mbar / $1 \times 10^{-2}$ Pa
Display	4 digit LCD, displays 4 digits from 100 mTorr to 1100 Torr, 3 digits from 10.0 to 100 mTorr, and 2 digits from 1.0 to 10 mTorr
Display engineering units	Torr, mbar, or Pa - user selectable
Display update rate	0.5 sec
Weight	250 gm (9.0 oz.)
Housing	1/8-DIN panel-mount enclosure
Temperature - operating	0°C to +40°C
Temperature - storage	-40 to +70°C
Humidity - operating	0 to 95% RH non-condensing
Analog Output (user-selectable)	1) log-linear 1 to 8 Vdc., 1V/decade, or 2a) non-linear analog S-curve 0.375 to 5.659 Vdc, or 2b) linear 0 to 10 Vdc, user scalable (default is 0-1- VDC = 0-1 Torr)
Digital Interface	RS485/RS232
Input Power	100-240 Vac, 50/60Hz, universal power supply or 12-30 Vdc
Setpoint relays	two, single-pole double-throw relay (SPDT)
Contact Rating	1A at 30 Vdc resistive, or ac non-inductive
Tripping point range	$1 \times 10^{-3}$ to 1000 Torr
Adjustment	a) adjust value b panel pushbutton up/down keys and display b) adjust value, direction, and hysteresis by software/interface
Connector	<b>Gauge:</b> 9-pin D female <b>Analog output and digital interface:</b> 9-pin D male <b>Relay outputs:</b> 6-pin pluggable terminal block <b>Power:</b> universal AC and 2-pin pluggable terminal block
RF/EMI protection	CE compliant



InstruTech Part No.	Description	Price
VGC301A	VGC 301 A Convection Vacuum Gauge Controller*	

#### InstruTech CVG Gauge Tubes:

CVG101GA	1/8"NPT - 1/2" tube
CVG101GB	NW16KF
CVG101GC	NW25KF
CVG101GD	NW40KF
CVG101GE	1-1/3" Mini-CF / NW16CF Mini-Conflat®
CVG101GF	2-3/4" CF / NW35CF Conflat®
CVG101GG	1/4" Cajon® 4VCR female
CVG101GH	1/2" Cajon® 8VCR female

#### Gauge Cables:

CB421110F	10 ft (3m)
CB421120F	25 ft (8m)
CB421150F	50 ft (15m)
	Over 50ft (15 m)

[Call for pricing](#)

\*Includes mating interface connectors, and North American 115VAC power cord & plug. Contact us for availability of powercords and plugs for other countries.)