

# MODEL 215 VLC

## Vacuum Instrument and Regulator in One Easy To Use Versatile Tool

### Specifications

<b>Range</b>	.001-760
<b>Units:</b>	Torr, mBar or kPa
<b>Vac Interface:</b>	1/8 inch MNPT or KF/NW
<b>Sensor:</b>	Varian 531
<b>Sensor cable length:</b>	10 feet
<b>Display:</b>	.38 inch high 6 Digit Red LED
<b>Dimensions:</b>	1.7" high, 3.52" wide, 5.35" deep
<b>Analog output:</b>	(if applicable): 0-5 VDC
<b>Power:</b>	100-240VAC 50/60 Hz CE rated
<b>Controls:</b>	7 Amp, 250 Volt (If Applicable)
<b>Mounting:</b>	1/8 DIN or Bench Top

### Vacuum instrumentation with everything you need to go to work

Each DIGIVAC vacuum gauge includes:

- A vacuum gauge controller
- A thermocouple vacuum gauge tube (vacuum sensor)
- A cable to connect the vacuum gauge controller to the thermocouple vacuum gauge tube
- An AC adapter that runs on 100-230VAC, 50/60 Hz with line cord adapter
- Pre-tested under actual vacuum against a NIST standard



### Optional Features

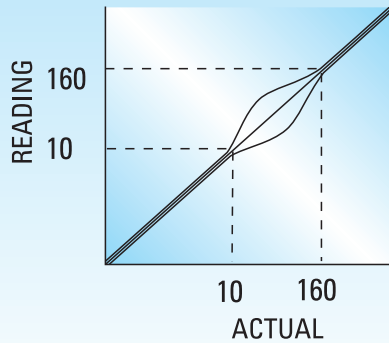
Options	Description
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<b>2C</b>	The ability to control an external device via 2 SPDT external connections at user specified setpoints
<b>5V5T</b>	Provides a voltage output proportional to vacuum reading which ranges from 0-5 volts at 1mV per mTorr (1 micron = 1mV, 5 Torr = 5 Volts)
<b>DS</b>	DIGIVAC software which collects and graphs vacuum data on a PC via RS232 or Ethernet - requires RS232 or Eth option
<b>Eth</b>	RJ45 Ethernet connectivity to allow remote monitoring of the DigiVac vacuum reading and can log to a web browser
<b>RS232</b>	Enables vacuum measurement to be transmitted to a PC or another RS232 device through a DB9 female interface. Includes a 6 foot DB9 male to female serial cable
<b>NISTCal</b>	Calibration of a DIGIVAC vacuum gauge against a NIST traceable standard with data
<b>mBar</b>	Displays vacuum reading in mBar
<b>PrintPlot</b>	An optional printer that displays a graphical plotted output when connected to the model 200.
<b>Length</b>	Standard 10 foot cable length with optional 40 feet of additional cable length priced per foot



### DIGIVAC MODEL 215 GAUGE ACCURACY:

- 0 to .009 Torr +/- 1 milliTorr
- 0.010 to 0.099 Torr +/- 7% of reading
- 0.100 to 0.999 Torr +/- 10% of reading
- 1.0 to 9.9 Torr +/- 15% of reading
- 10 to 160 Torr +/- 50% of reading
- 160 to 760 Torr +/- 25% of reading



### CONVERSION TABLE:

Microns	Torr
1	.001
5	.005
10	.010
50	.050
100	.100
500	.500
1000	1.00
5000	5.00
10000	10.0
100000	100.
760000	760.

**The DIGIVAC Model 215** is both a vacuum gauge and a regulator in one easy to use versatile tool. It measures vacuum through 7 decades of pressure from 1 milliTorr all the way up 760 Torr as the model 200 does. In addition, it allows you to select the units displayed: either Torr, mBar or kPa. When purchased with the optional VLC control, the Model 215 VLC controls a vacuum level at a particular set point between 30 milliTorr and 2000 milliTorr. This vacuum level controller works on the principal of regulating the bleed of a vacuum vessel to atmosphere much like the way many freeze dryers do. The VLC option also has PID variables to enable the user to adjust the nature of the control. This unit comes with an optional Ethernet or RS232 command set that will allow the user to remotely monitor and control the unit. The unit has been tested on vessels from .5 gallons through 10 gallons with minimal PID tuning required. This controller builds on the base of our thermocouple vacuum technology and OEM experience to provide a simple low cost product to regulate vacuum in a vessel. The unit has optional analog recorder output, RS232 connectivity, Ethernet, and 1 or 2 SPDT relays. This unit takes the manual work out of precision lab work. It is intuitive to use, requires a very simple setup that make it easy to control a process or perform precision experimentation.

