

MODEL 201 MultigaUGE

Highly Adaptable Multi-sensor Multi-gauge Controller

Specifications

Range	1x10 ⁻⁵ -760 Torr
Units:	Torr, mBar or kPa
Vac Interface:	1/8 inch MNPT or KF/NW
Sensor:	Varian 531, CM, Active
Sensor cable length:	10 feet
Display:	.38 inch high 6 Digit Red LED
Dimensions:	1.7" high, 3.52" wide, 5.35" deep
Analog output:	(if applicable): 0-5 VDC
Power:	100-240VAC 50/60 Hz CE rated
Controls:	7 Amp, 250 Volt (If Applicable)
Mounting:	1/8 DIN or Bench Top

Vacuum instrumentation with everything you need to go to work

Each vacuum instrument includes:

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



201 types of expansion boards possible to populate a total of 4 slots

Expansion Max Description

CM	3	Expansion board for use with a capacitance manometer or any supported active gauge
TC	3	Expansion board for use with a Varian 531 Thermocouple gauge tube
2C	2	Expansion board with 2 SPDT relay outputs (each output has Common, NC and NO)
VLC	1	Expansion board for use to enable upstream vacuum regulator and vacuum level control
Eth	1	Expansion board to enable Ethernet connectivity and web management

Types of Sensors supported

Expansion Sensor

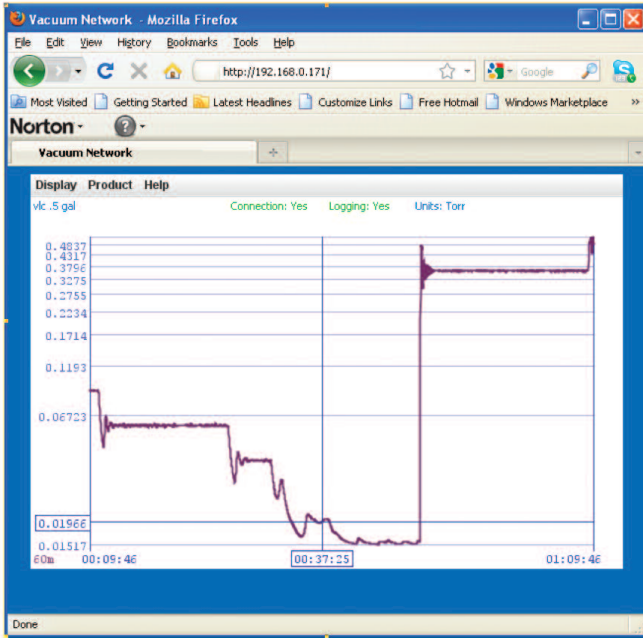
CM	Total of 1, 2 or 3 MKS, Inficon or Setra capacitance manometers, and active gauges: PCG 750, PVG500 and CDG 500
TC	Total of 1, 2 or 3 Varian 531 Thermocouple gauge tubes

Sensor combinations

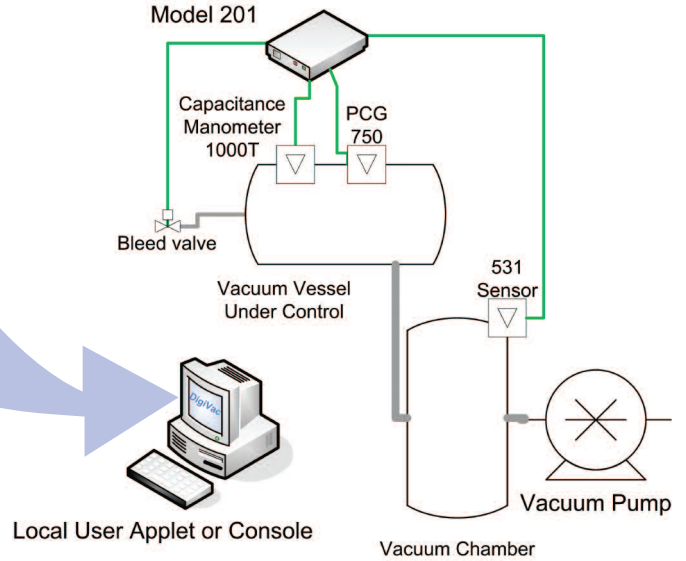
Combination Max Description

1TC	3	For use with a Varian 531 gauge. If multiple are configured, each slot would be displayed one at a time
1CM	3	For use with a capacitance manometer sensor. If multiple are configured, each slot would be displayed one at a time
2CM	1	Combination where one value will be displayed based on the combination of a 0.1T and 10T capacitance manometer, or the combination of a 10T and 1000T capacitance manometer
3CM	1	Combination where one value will be displayed based on the combination of a 0.1T, 10T, and 1000T capacitance manometer





Possible Configurations



The Model 201 series gauge controller is a highly configurable digital vacuum control instrument capable of driving and combining multiple sensors. This device can save space, money and complexity by combining many tasks into one device while enabling the user to have any level of accuracy desired for different ranges. It is a highly flexible multi gauge controller that accepts different inputs based on driver board and sensor election, and can have different outputs including: Analog Recorder, RS232, Ethernet, SPDT relays and VLC outputs. The 201 is configured with sensors based on the accuracy and range required to sense vacuum, and displays the pressure reading in user selectable units of: Torr, mbar or kilopascal. The Model 201 can either be panel mounted or sit on a bench top, and can use thermocouple, capacitance manometer, PCG750, CDG500, or PVG500 Active Gauges. The 201 has a built in feature that displays "range" when the sensor is below its useful range to minimize confusion when looking at multiple instruments. It displays "error" if there is a sensor input fault, and puts any configured relays immediately to the safe atmospheric setting. The 201 also has a rich command set to empower the user to control the set points and PID variables via a local RS232 session or from a web browser a world away.

When purchased with the optional VLC control, the Model 201 regulates the vacuum level at a particular set point between 30 millitorr and 5000 millitorr. This vacuum regulator 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. The 201 is intuitive, requires very little setup which makes it easy to control a process or perform precision experimentation.

The instrument equipped with Ethernet gives the user the power of the ReAct browser to remotely monitor and control all aspects of the 201. The 201 greatly facilitates process control and easy data sharing to simplify production and laboratory work.

