MODEL 450

Vacuum Regulation Controller to Make Lab Testing Easier

Specifications

Range	1-760
Units:	Torr
Vac Interface:	3/8 inch I.D. Hose
Sensor:	Isolated transducer
Display:	LCD Character
Dimensions:	2.75" high, 5.5" wide, 7.5" deep
Power:	100-240VAC 50/60 Hz CE rated

Vacuum instrumentation with everything you need to go to work

Each vacuum instrument includes:

- A vacuum gauge controller
- An isolated vacuum sensor
- An AC adapter that runs on 100-230VAC, 50/60 Hz with line cord adapter

All are pre-tested under actual vacuum against a NIST standard

Optional Features

Options	Description
NISTCal	Calibration of a vacuum gauge against a NIST traceable standard with data
Setpoint	Gives the ability to control vacuum at a particular setpoint
SS	Makes vacuum path completely composed of stainless steel to reduce effects of a corrosive environment
VDS	Valve controller software that allows a recipe of 16 setpoints and relative durations to be followed for scientific test
Differential	Gives the ability to control a differential vacuum level from -3.0 to +3.0 PSI
RS232	Enables vacuum measurement to be transmitted to a PC or another RS232 device through a DB9 female interface. Includes 6 foot DB9 male to female serial cable

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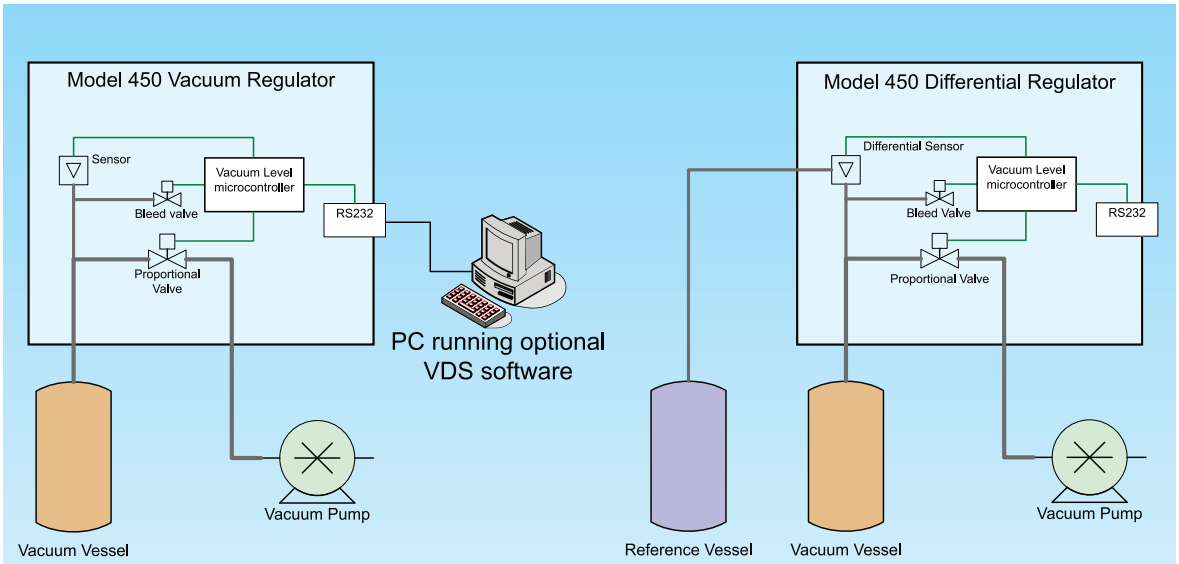
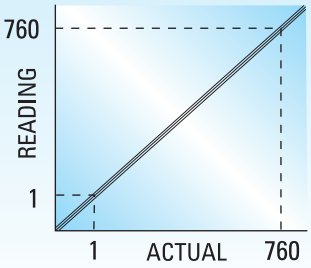


MODEL 450 GAUGE ACCURACY:

1 to 5 Torr +/- 0.5 Torr

5 to 760 Torr +/- 1 Torr



The Model 450 is a self contained, vacuum level control unit for maintaining pressures between 1 and 760 Torr. It provides dependable, digital control of your vacuum system with innovative controller technology to make testing easier. The Model 450 has a gas independent, isolated, stainless steel sensor and optional, stainless steel piping to enable implementation in the most corrosive environments. The heart of the unit is a proportional valve that allows the controller to make precise changes in vacuum flow to achieve a very stable vacuum level. The unit has a bleed valve that adds bleed control from atmospheric pressure. The Model 450 has full manual control available via a dial on the front panel, or can be controlled remotely via RS232. Using VDS software, the user can run a recipe of 16 time duration and vacuum levels through their PC. The display is an easy to read, back-lit, LCD display with an intuitive readout of the current vacuum level set point, current vacuum level, valve duty cycle, and mode. The Model 450 has been tested in both house vacuum and directly connected vacuum pump configurations to maintain either an absolute or differential vacuum level. This vacuum controller is in use for altitude simulation, pharmaceutical research, and in manufacturing industries to control the vacuum level in evaporator flasks and vacuum vessels.

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