# MODEL 801W

## Panel Mount Drop In Replacement for Varian 801 With Wide Range and 2 Optional SPDT Controls

### Specifications

| | |
|---|---|
| **Range** | .001-760 |
| **Units:** | Torr |
| **Vac Interface:** | 1/8 inch MNPT or KF/NW |
| **Sensor:** | Varian 531 |
| **Sensor cable length:** | 10 feet |
| **Display:** | .56 inch high 3.5 Digit Red LED |
| **Dimensions:** | Mounts in 2.66" panel hole with 3 screws on 1.60" radius |
| **Analog output:** | (if applicable): 0-5 VDC |
| **Power:** | 100-240VAC 50/60 Hz CE rated |
| **Controls:** | 7 Amp, 250 Volt (If Applicable) |

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

Each 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 |
|---|---|
| **2C** | The ability to control an external device via 2 SPDT external connections at user specified setpoints |
| **5V5T** | 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) |
| **DS** | Software which collects and graphs vacuum data on a PC via RS232 |
| **Hast** | Hastings 4-hole mounting pattern to replace hastings guages like the vt-6 with range 1mT to 1999mT |
| **LBD** | A Linear by Decade scheme where the leading digit is scale, and the last digit is the vacuum reading. For example: 0.995 Volts = 0.995 Torr, 1.010V = 10.1T, 2.1V = 100T, and 3.760V = 760T |
| **RS232** | 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 |
| **NISTCal** | Calibration of a vacuum gauge against a NIST traceable standard with data |
| **mbar** | Displays vacuum reading in mbar |
| **PrintPlot** | An optional printer that displays a graphical plotted output when connected to the model 801W |
| **Length** | Standard 10 foot cable length with optional 40 feet of additional cable length priced per foot |

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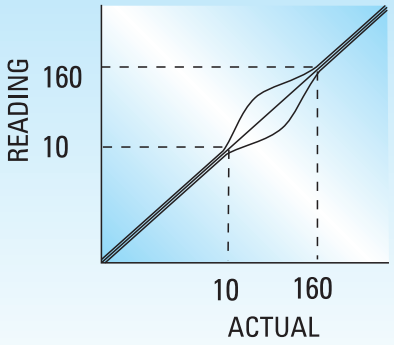
## MODEL 801W GAUGE ACCURACY:

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 801W** is a drop in replacement for the Varian 801 and other Hastings and Fredericks gauge controllers which mount in the industry standard 3 bolt pattern.

The Model 801 is our best selling panel mount gauge, and the industry's best value for a rugged vacuum gauge for measuring through 6 decades of wide range rough vacuum with optional SPDT controls. This unit measures vacuum in Torr and uses the rugged Varian 531 thermocouple vacuum gauge tube. The gauge controller is easily mounted with mounting screws in a 1.58" bolt radius with all wiring easily accessible. The gauge is highly resistant to shock because it has no moving parts, thus requiring infrequent calibration.

The gauge controller has a large bright LED display which can be easily read from across the room, or in dimly lit locations.

This gauge measures from 1 micron ($1x10^{-3}$ Torr) all the way up to 760,000 Microns (760 Torr) or Atmosphere. The wide range of this vacuum instrument enables users to easily troubleshoot their system. This gauge can also output vacuum readings to an optional RS232 serial connection. This output can be used to graph and plot historical data with the plotting software, and can also be used as a vacuum transmitter to a PLC or other device.

This unit has the Varian 801 standard 3 hole mounting pattern or an optional 4 hole hastings pattern and is microprocessor based. Installation is easy: simply remove the analog gauge and mount the 801W faceplate to the outside of the panel. The display and electronics mount behind the panel with the screws provided. The display is visible through the clearance hole normally provided for the meter body.

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