

## DIGITAL VACUUM & TEMPERATURE CONTROLLER MODEL: DTVC-001



Front view



back view

- ❖ **Measurement range 0.001 to 1000 mbar for vacuum and -100 to +800 Deg C for Temp**
- ❖ **Space saving rugged design DIN console**
- ❖ **Mounts in any orientation**
- ❖ **brass body measuring cell with metal-sealed feed through**
- ❖ **with universal power supply – input voltage from 90 ~ 264VAC, frequency 47 ~ 440Hz**
- ❖ **integrated set point adjustment and relay output for both vacuum and temperature**
- ❖ **Easy To Read 4 Digit Backlit Display**
- ❖ **Change Cable Length Without Re-calibrating upto 8 meters**
- ❖ **RS 485 computer interface with data logging - optional**

The UVS **Model DTVC series** Vacuum & Temperature Gauge Controller displays vacuum pressure as well as temperature in one module, the vacuum is measured from a S-PR-GH sensor tube. It displays vacuum measurements based on thermal conductivity. The input for the temperature channel is from the RTD thermocouple. The **Model DTVC-001** controller controls relay with independent set point.

**\*\*\*The optional RS485 along with data acquisition software can be obtained on request**

### **UNIQUE VACUUM SOLUTIONS**

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## Specifications:

<b>MODLES</b>	<b>DVTC-001</b>
<b>Number of sensor channels</b>	<b>ONE EACH FOR VACUUM AND TEMPERATURE</b>
<b>Display Range</b>	FULL range: 0.001 to 1000 mbar for vacuum & -100 to +800 Deg C for temp.
<b>Measuring Range</b>	USEFUL range: 0.001mbar to 100 mbar and -100 to +800 Deg C for temp.
<b>Units of Display</b>	m Bar and Deg C
<b>Vacuum Gauge</b>	Pirani (S-PR-GH sensor tube) and RTD thermo couple
<b>Temp. Range</b>	+2 to +50 deg. Celsius
<b>Display</b>	4-digit bright red LED, 14 mm high
<b>Display Indicators</b>	red LED for SET PT
<b>VAC and ATM Adjust</b>	Adjusted by trim pot at the signal conditioner PCB.
<b>Process control set points</b>	ONE EACH FOR VAC & TEMP
<b>Process Control Relays</b>	Two relays, 2 amp, 240 VAC contacts; independent available through the DB15 accessory connector
<b>Nonvolatile Memory</b>	for SET POINTS
<b>Operating Voltage</b>	universal power supply, which operates on input voltages from <b>90 ~ 264VAC</b> 50/60 Hz; standard IEC 320 instrument power input receptacle on rear panel; replacement fuse type: 5 mm X 20 mm, 2 amp
<b>Mounting</b>	Side clips are provided for panel mounting
<b>Environmental Considerations</b>	not for use with explosive or corrosive gases
<b>Overall dimensions</b>	200W X 210D X110 H (mm)
<b>Cut out dimensions</b>	180W X 90H (mm)

### **CALIBRATION:**

**Unique Vacuum Solutions** offers a convenient recalibration service to help users of vacuum measurement pirani / thermocouple/ full range gauges to maintain all of their vacuum gauges in Certified and peak condition, regardless of the original manufacturer. All makes of vacuum gauges can also be calibrated / repaired if required.

The calibration certificates are available only on request at additional cost. PI contact before ordering.

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