

VACUUM TUBE PRODUCTS

THERMISTOR VACUUM GAUGE

TYPE VTP 6579



The VTP 6579 is a vacuum gauge of the Thermal conductivity type incorporating a small thermistor as the sensing element. The VTP 6579 is designed to operate in the range of .1 to 1000 microns. The pressure reading is determined by the change in cooling on the platinum heater. A reliable pressure reading is obtained when the heater is supplied from a stabilized source and excessive changes in ambient temperature are not encountered.

The VTP 6579 is of all metal construction and is assembled by projection welding methods. The internal structure is ruggedized by design and is assembled by special fusing techniques, providing excellent sensitivity and fast response.

The VTP 6579 has been designed specifically for use with vacuum controls. The change in resistance of the thermistor unit, due to changes in pressure, provides an excellent means of changing the bias voltage of a vacuum or gas filled amplifier tube. The amplification obtained may then operate relays, alarms or process controls.

OPERATING CHARACTERISTICS

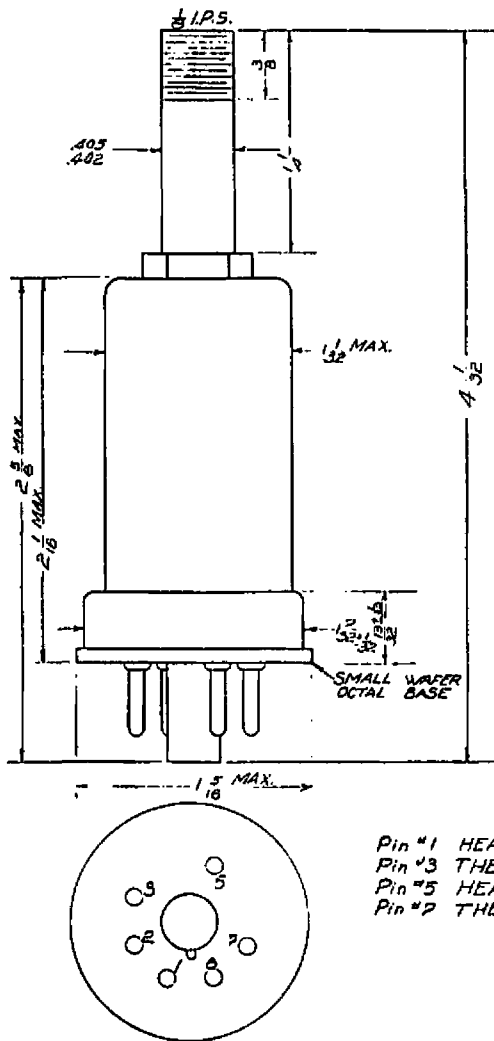
Heater Current Normal (Note 1.)	Approx.	350 ma		
Heater Current Maximum		500 ma		
Heater Resistance (cold) Nominal		.32 ohms		
Heater Resistance (hot) Nominal		.40 ohms		
Heater to Thermistor Resistance	10 Min.	MegOhms		
Heater to Thermistor Voltage		75 max. volts		
Maximum Voltage permissible across Thermistor		75 Volts		
Maximum Wattage permissible in Thermistor		35 Milli Watts		
Thermistor Resistance with 0.5 ma flowing in circuit:				
Hard Vacuum		6.6 K ohms		
1000 Microns		22.0 K ohms		
Air		31.0 K ohms		
Thermistor Resistance with 1.5 ma flowing in circuit				
Hard Vacuum		3.2 K ohms		
1000 Microns		8.0 K ohms		
Air		10.3 K ohms		
Thermistor Circuit Current		20.0 Max. ma		
Base		Octal		
Basing		RETMA 8GP		
Pin No.	1	3	5	7
Element	Heater	Thermistor # 1	Heater	Thermistor # 2

NOTE 1. All gauge tubes are individually calibrated to provide a resistance in the thermistor circuit of 6.6 K ohms with 0.5 ma flowing in the measuring circuit. The heater current required is marked on each tube.

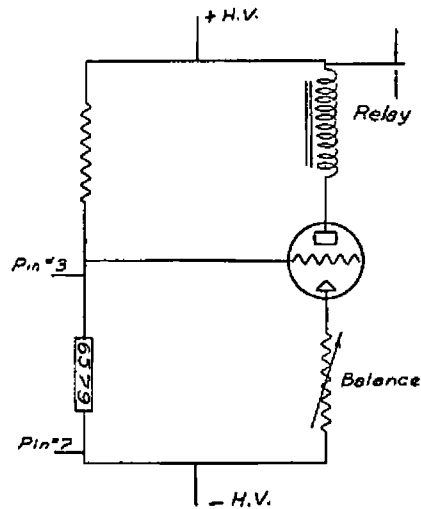
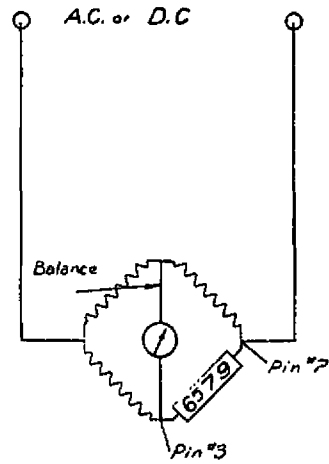
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Pin #1 HEATER
 Pin #3 THERMISTOR #1
 Pin #5 HEATER
 Pin #7 THERMISTOR #2



Typical Circuits

