



**Gauge Tube Mount** Active switch shown on Pirani tube with KF-16 Flange. 1/8" NPT, VCR & Conflat® also available.

**Notes For Operation:**

1. Range Of This Switch is 3 To 5000 mT.
2. Relay Point Output is 0 To 2 V DC, □ Non Linear. See Table In Manual.
3. Analog Output 0 To 2 V DC Non Linear
4. Relay Contacts Are Rated For 5A @ 115V □ Or 1A @ 230 V Non Inductive.
5. Power Required Is 12V DC @ 200 mA.

Relay Point Adj. □	Relay Point Output □	Analog Output □	S.P.D.T. Relay □	12V DC □
⊗	- +	+ -	NO C NC	+ -

- Ranges From 10<sup>-5</sup> Torr to 2 Atmospheres
- Active Switch, Plugs Directly Onto Sensor
- Pirani, Diaphragm or Thermocouple Gauge Tubes
- Use With Hastings DV-6 or VRC Gauge Tubes
- Adjustable Setpoint, SPDT Relay, 5A @ 115 V
- Analog Output for PLC or Computer Interface
- Uses Less than 200 mA @ 12 Volts DC or 24 VDC

The Active Vacuum Switch provides an inexpensive and straightforward way to control your vacuum system. Use the Pirani Switch directly to initiate crossover after roughing, or the Diaphragm Switch to control backfill pressure on pump and purge operations. Or, feed the Active Switch output into your PC or PLC and let the digital system make the control decisions based on the output signal.

## Specifications

**Size:** Tube mount switch is 3.08 X 3.5 X 1.5 in. high (78 X 89 X 38 mm high)

**Materials:** Base plate is 300 series stainless steel. Standard cover is ABS plastic. Stainless steel cover is optional.

**Relay:** SPDT contacts rated for 5A @ 115 VAC, non-inductive.

**Power:** Standard vacuum switches operate from 12 VDC power, 200 mA. Vacuum switches shipped to customers in the USA include an external wall mount style power supply with 115 VAC in/12 VDC out. Customers outside the USA must provide 200 mA @ 12 VDC. See below for optional 220 V 50 Hz power supply.

**Response time:** With Vacuum Research Pirani; 0.3 sec time constant. With Vacuum Research Diaphragm tubes; less than 400 milliseconds.

**Accuracy:** With Vacuum Research Pirani better than 1% of value or ±3 mT.

## Ordering Information

Vacuum Range • Sensor Type • Analog Output	Active Switch (without sensor)	Sensors for Gauge Tube Mount
	Gauge Tube Mount	
10 <sup>-5</sup> to 10 <sup>-1</sup> Torr • Pirani Sensor • Analog Output 0 - 1 VDC (.01 X 10 <sup>-3</sup> to 100 X 10 <sup>-3</sup> mbar, .001 to 13.3 Pa)	P/N 902134.....\$263.	Order sensor from catalog page 14
1 to 1000 mTorr • Thermocouple Sensor • Output 0 - 2 VDC (1 X 10 <sup>-3</sup> to 1 mbar, 0.1 to 100 Pa)	P/N 902130.....\$207.	Order sensor from catalog page 20
3 to 5000 mTorr • Pirani Sensor • Analog Output 0 - 2 VDC (10 <sup>-3</sup> to 2 mbar, 0.1 to 200 Pa)	P/N902136 .....\$207.	Order sensor from catalog page 13
.01 to 20 Torr • Pirani Sensor • Analog Output 0 - 2 VDC (.01 to 20 mbar, 1 to 2000 Pa)	P/N 902155.....\$263.	Order sensor from catalog page 15
1 to 1500 Torr • Diaphragm Sensor • Output 0 - 1.5 VDC (1 to 2000 mbar, 0.1 to 200.0 kPa)	P/N 902138.....\$263.	Order sensor from catalog page 7
30 " Hg to Atmosphere • Diaphragm Sensor • Output 0 - 3 VDC	P/N 902140.....\$263.	Order sensor from catalog page 18
Explosion Proof Enclosure, Class 1 Group C or D, Div. 1 Meets NEMA-4 & IP66 Water Resistance Specifications	P/N V805010.....\$339.	Order sensor from catalog page 42
Spare Power Supply 115 V, 50/60 Hz In, 12 VDC Out Spare Power Supply 220 V, 50 Hz In, 12 VDC Out Optional Stainless Steel Cover in place of Standard ABS Cover Switches Wired for 24 VDC power instead of standard 12 VDC.	part no. V104099.....\$8. part no. V104124.....\$51. part no. V700271.....add \$29. Add suffix 24 V to P/N .....add \$28.	