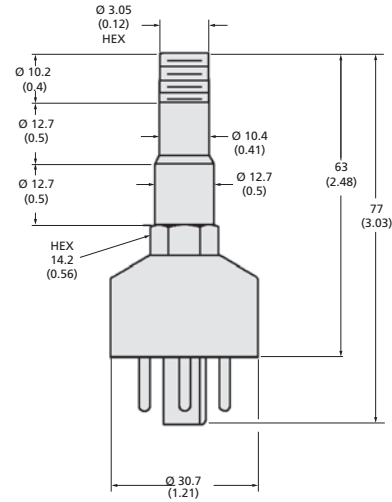


# Vacuum Measurement

## Agilent 531 Thermocouple and 536 Baffled Thermocouple



Dimensions: millimeters (inches)

The 531 Thermocouple Gauge Tube is the time-proven, low-cost solution for continuous and accurate indication of rough vacuum pressure from  $1 \times 10^{-3}$  to 2.0 Torr ( $1 \times 10^{-3}$  mbar to 2.7 mbar). Featuring rugged dependability and consistent operation unaffected by mounting orientation.

The 536 Thermocouple Gauge Tube is a welded 304 stainless steel version of the 531 with an additional baffle that greatly extends the sensor life when exposed to condensable gases in demanding applications. It provides a continuous and repeatable indication of pressures from  $1 \times 10^{-3}$  Torr to 2 Torr ( $1 \times 10^{-3}$  mbar to 2.7 mbar). The thermocouple and heater are noble metal to minimize any possible affect of contaminants on gauge performance.

Both gauges are offered in a variety of mounting options and are easily interfaced with Agilent's XGS-600 gauge controller.

### Technical Specifications

#### Measurement range

$1 \times 10^{-3}$  Torr to atmosphere,  $1 \times 10^{-1}$  to 133 Pascal

#### Temperature limits

Operating: 0 °C to 50 °C; Storage: -15 to 80 °C; bake out: 150 °C with cable disconnected

#### Pressure response time

Less than 3 seconds

### Ordering Information

Description	Part Number	Fitting	Weight kg (lbs.)
<b>531 Thermocouple Gauge Tube</b>	F0472301	1/8 in. NPT	0.5 (1.0)
<b>536 Thermocouple Gauge Tube</b>			
Baffled TC tube type 304 stainless steel	L6141303	1/8 in. NPT	0.5 (1.0)
Platinel filament	L6141304	Mini-ConFlat	0.5 (1.0)
	L6141305	Cajon 4 VCR (female)	0.5 (1.0)
	L6141307	NW10 KF	0.5 (1.0)
	L6141308	NW16 KF	0.5 (1.0)
	L6141309	NW25 KF	0.5 (1.0)