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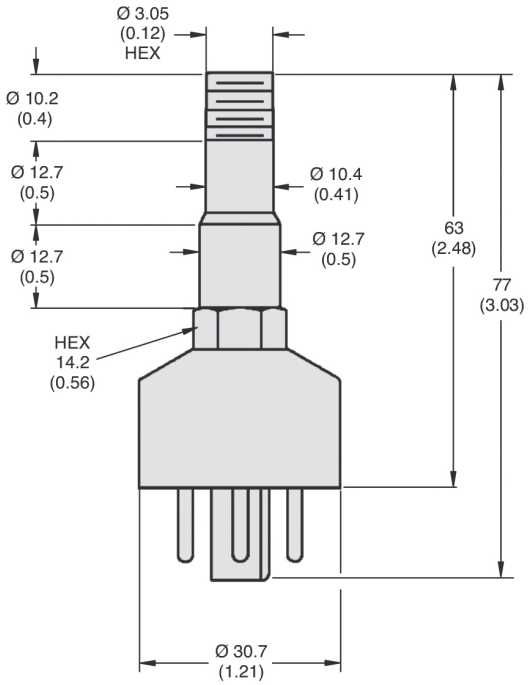
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Data Sheet

Agilent
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531 & 536 Thermocouple Gauge Tubes





Dimensions: millimeters (inches)

The 531 Thermocouple Gauge Tube is the time-proven, low-cost solution (nickel-plated or stainless steel) for continuous and accurate indication of rough vacuum pressure from 1 x 10^{-3} torr to atmosphere (1 x 10^{-3} mbar to atmosphere). 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 x 10^{-3} Torr to atmosphere (1 x 10^{-3} mbar to atmosphere). 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 RGC-100, RGC-150 or XGS-600 Gauge Controllers.

Technical Specifications

Measurement range		
1 x 10^{-3} Torr to atmosphere, 1 x 10^{-3} mbar to atmosphere		
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		
Accuracy	**% of reading**	**Units**
	±10%	1.3 x 10^{-3} to 1.3 mbar (1 milliTorr to 1 Torr)
	±15%	1.3 to 13.3 mbar (1 to 10 Torr)
	±50%	13.3 to 213 mbar (10 to 160 Torr)
	±25%	213 to 1000 mbar (160 Torr to 760 Torr)

Ordering Information

Description	Part Number	Fitting	Weight kg (lbs)
531 Thermocouple Gauge Tube			
mild steel (nickel plated)	F0472301	⅛ in. NPT	0.5 (1.0)
stainless steel	F0472303	⅛ in. NPT	0.5 (1.0)
	F0472310	Cajon 4 VCR (female)	0.5 (1.0)
	F0472315	DN 16 ISO-KF	0.5 (1.0)
	F0472314	DN 25 ISO-KF	0.5 (1.0)
536 Thermocouple Gauge Tube			
Baffled TC tube type 304 stainless steel	L6141303	⅛ in. NPT	0.5 (1.0)
Platinel filament	L6141304	DN 16 CFF (1.33 in CFF)	0.5 (1.0)
	L6141305	Cajon 4 VCR (female)	0.5 (1.0)
	L6141307	DN 10 ISO-KF	0.5 (1.0)
	L6141308	DN 16 ISO-KF	0.5 (1.0)
	L6141309	DN 25 ISO-KF	0.5 (1.0)

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DE44449.4890625

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Printed in the USA, September 21, 2021
5994-4127EN

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