

2A Thermocouple Gauge Tube

Range: 1 - 20,000 mTorr

- **PERFORMANCE** – Provides continuous and accurate vacuum indication
- **DESIGN** – Cost effective Nickel-plated Brass & Rugged stainless steel construction with simple design for easy operation.
- **ECONOMY** – Cost effective gauge tube for fundamental applications
- **REPLACEABLE** – Simple, rugged, reliable. No calibration required.



Part Number 2-2100-10

Description

The thermocouple gauge sensor provides reliable measurements from 0 to 20,000 mTorr. Its repeatability helps insure that processes start at the desired pressure time-after-time.

The TELEVAC 2A Thermocouple gauge sensor measures absolute pressures by determining the heat loss from a fine wire filament maintained at a constant temperature.

Applications

- Cryogenics
- Coating Process
- Plasma Coating/Sputtering
- Cryogenic Tanks/Dewars
- Heat Treatment/Vacuum Furnace
- Load Lock
- Lighting/Neon Signs
- Chemical Processing
- Electron Beam Welders
- Petrochemical
- Pharmaceutical Products
- Processing Vacuum Packaging & Transport

2A Thermocouple Gauge Tube

Specifications

Vacuum Measurement Range:	1 mTorr to 20,000 mTorr (Air /N ₂)
Accuracy:	+/- 10% at 1 - 100 mTorr +/- 20% of reading at 101 mTorr – 1 Torr
Operating Temperature:	+15 degrees C to 50 degrees C
Bakeout Temperature:	250 degrees C (w/ 2 ¾ Conflat Flange)
Mounting Position:	Multi-directional - can be mount as required
Fitting Connection:	1/8 NPT, NW16, NW25, 2 ¾ CF and others
Electrical Connection:	Octal connector
Sensor Material:	Available in Nickel-plated Brass & Stainless Steel
Overpressure Tolerance:	150 PSIG
Dimensions:	Max. Height 3.5" (for 1/8" NPT) Max. Width 1.25" (for 1/8" NPT)

Instrument Selection

Many Televac instruments are compatible with the 2A Thermocouple Gauge Sensor. Consider the MM200 or MC300 panel-mount instruments with two 2A stations which combine the 2A Thermocouple sensors for rough vacuum measurement and Televac's cold or hot ionization gauge tubes for high and ultra high vacuum measurement. Also available are MP2AR self-contained Remote for remote mounted applications, Battery / Portable instruments for field services and others. Contact TELEVAC for additional information.



MC300 Panel Mount Instrument



B2A Battery Instrument



MP2AR Self-Contained Remote

Contact TELEVAC for additional 2A instruments available

Ordering Information

Description	Part Number
2A Thermocouple Gauge Tube 1/8" NPT, Nickel-plate Brass	2-2100-10
2A Thermocouple Gauge Tube 1/8" NPT, Stainless Steel	2-2126-001
2A Thermocouple Gauge Tube, NW16, Stainless Steel	2-2126-030
2A Thermocouple Gauge Tube, NW25 Stainless Steel	2-2126-031
2A Thermocouple Gauge Tube, 1 1/3 Conflat Flange, Stainless Steel	2-2126-050
2A Thermocouple Gauge Tube, 2 ¾ Conflat Flange, Stainless Steel	2-2126-052

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