

2A MINI Thermocouple Gauge Tube

Range: 1 - 20,000 mTorr

- **PERFORMANCE** – Provides continuous and accurate vacuum indication
- **DESIGN** –Rugged stainless steel construction with simple design for easy operation.
- **COMPACT SIZE** - Small. Half the size of traditional thermocouple sensors.
- **REPLACEABLE** – Simple, rugged, reliable. No calibration required.
- **CONNECTION** – Standard vacuum fitting interface is 1/8" NPT.



Description

This “ruggedized” 2A Mini thermocouple gauge sensor of stainless steel construction is made specifically for NASA applications. Unlike traditional vacuum sensors, which have exposed electrical pins, the NASA 2A Mini Thermocouple Gauge sensor’s design protects the pins. This sensor will operate in any physical direction. TELEVAC offers a variety of instruments to drive the NASA 2A Mini. Contact us for additional information.

Applications

- Biotechnology
- 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
- More...

Specifications

Burst Pressure	250 psig Min.
Construction Material	300 Series Stainless Steel
Dimensions	1 7/8" x 5/8"
Electrical Connection	Four Pin. Mates w/ Bendix PC-06A-8-4S SR
Internal Volume	2.5 cc
Leak Rate	not to exceed 2 x 10 ⁻⁹ Std cc (helium)/s
Mechanical Connection	1/8 NPT (other fittings available)
Mounting Position	Any direction

Operating Temperature	-65° F to 200° F
Positive Pressure Test	65 psig
Power requirements	100 ma.
Temperature Compensation	30° F to 150° F
Temperature Limits (Hermetic Seals)	-100° C to 440° C (in slow transition)
Vacuum Measurement Range	1 to 20,000 mTorr
Vibration / Shock	75 G ½ sine 11 ms duration
Weight	28 grams

Ordering Information

Description	Part Number
2A Thermocouple Gauge Tube 1/8" NPT, Stainless Steel	2-2100-31

Instrument Selection

Many TELEVAC instruments are compatible with the 2A Mini Thermocouple Gauge Sensor. Consider the MM200 or MC300 panel-mount instruments with 2A stations for rough vacuum measurement and cold or hot ionization gauge tubes for high and ultra high vacuum measurement. Also available are Battery / Portable instruments for field services and others.

Contact TELEVAC for additional information.



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