

7B2 PENNING COLD CATHODE SENSOR

Usable Range: 1×10^{-2} to 1×10^{-7} Torr

Product

- **Robust Construction:** All wetted materials are is Brass Tophet. Cleanable subassembly can be maintained without breaking the primary vacuum interface.
- **Small Size:** Compact design permits easy replacement of older obsolete sensors.
- **Versatile:** Use in any physical orientation.
- **Rugged:** Withstands frequent pressure bursts. No hot filaments to sag and break.
- **Reliable Service:** Simple design means years of productive use in various applications.
- **Bake-out to 150degrees C.**



PRODUCT DESCRIPTION

The Televac Model 7B2 Penning gauge is a robust sensor designed to measure high vacuum with a range of 10^{-3} to 10^{-7} . Long considered the most reliable sensor available, the TELEVAC 7B2 has no filament to break or burn out. It offers several advantages over other penning gauges, such as:

- **Cleanable** – easy to remove sub-assembly for years of long lasting use.
- **Replacement anode assembly available** - easy to install.
- **Rugged design** provides longer service in dirty, contaminated areas.
- **Fast response** to pressure changes.

PRODUCT APPLICATIONS

- Heat Treating Processes
- CRT Mfg.
- Deposition of Optical & Functional Films
- Distillation of Low Vapor Pressure Chemicals
- Freeze Drying
- Helium Mass Spec. Leak Detectors
- Lamp, Lighting & Laser Products Mfg.
- Mass Spectrometers
- Metallurgical Processes
- Night Vision / Electro-Optical Detector Mfg.
- Plasma Enhanced Deposition
- Sterilization

PRODUCT SPECIFICATIONS

- Range: 1×10^{-3} to 10^{-7} Torr
- Overpressure Tolerance: 150 PSI
- Wetted Materials: Brass, Tophet
- Operating Temperature Range: +15 C to +50 C
- Maximum Continuous Bake Temperature: +150 C
- Calibrated Medium: Dry Nitrogen per AVS Recommended Practice No. 6.4-1969
- Vacuum Interface: $\frac{3}{4}$ NPT, NW 25, others (contact TELEVAC)
- Accuracy: +/- .2 Decade



ORDERING INFORMATION

Sensor Part Number: 2-2100-263 (BRS $\frac{3}{4}$ " NPT)
2-2100-272 (SS NW25 Flange)

Other vacuum fittings available.

Recommended Controllers:

MM200 Control Unit, P/N 2-7900-20 with 7B Module, P/N 2-6200-227

MC300, Part Number 2-4502-301 2A/7B Combination

MC300, Part Number 2-4502-302 4A/7B Combination

Standard Cable Lengths:

10' - Part Number: 2-9800-09

20' - Part Number: 2-9800-41

35' - Part Number: 2-9800-42

50' - Part Number: 2-9800-43

65' - Part Number: 2-9800-45

Special Lengths are available.

Contact TELEVAC for pricing information.



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