

B2A Portable Thermocouple Controller Part Number: 2-3001-100

Operating Specifications¹

Operating Range	1 x 10 ⁻³ Torr to 20 Torr
Communications	N/A
Analog Output	N/A
Programmable Set Points	N/A
Supply Voltage	115 VAC, 50-60Hz
Battery Life	Up to 12 hours
Maximum Power	3 W (Charging)
Calibration Medium	Dry air or nitrogen
Overpressure	Sensor-dependent
Operating Temperature	0 °C to 50 °C
Storage Temperature	-20 °C to 60 °C
Bakeout Temperature	Sensor-dependent
Response Time	≤ 1 s
Accuracy	
1 mTorr to 10 mTorr	±1 mTorr
10 mTorr to 100 mTorr	±10% of reading
100 mTorr to 1000 mTorr	±20% of reading
Display Readable Distance	1 m (3 ft)

Physical Characteristics

Housing	Plastic
Electrical Connections	Power cord (IEC 60320 C-13)
Weight with Sensor (typical)	1050 g (2.31 lbs)
Weight without Sensor	878 g (1.94 lbs)
Dimensions	See dimensional drawings

Benefits

- Competitively priced
- Very compact design
- Lightweight and portable
- Excellent customer support
- Designed and manufactured in the United States of America

Description

The B2A Portable Thermocouple Controller utilizes an easily replaceable Televac 2A thermocouple vacuum sensor. It has a variety of features including an easy to read analog display and a rechargeable battery that last up to 12 hours between charges. The B2A includes a coiled cable to minimize hassle while taking measurements in the field.



Applications

- Cryogenics
- Field Service Applications

Visit the Televac website at www.televac.com for a full list of applications.

Ratings and Compliance

- IP40

¹ See the Televac website at www.televac.com for a list of definitions for terms used in the operating specifications. All test data was acquired at 23 °C.





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Materials Exposed to Vacuum

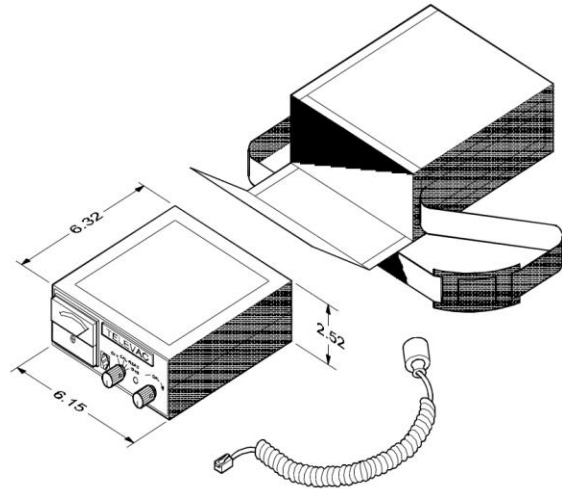
Nickel Plated Brass Sensors	Stainless Steel Sensors
Nickel	Nickel
Glass	Glass
Gold	Gold
Tophet	Tophet
Cupron	Cupron
Solder	Stainless Steel

Related Products

MV2A Thermocouple Controller—This controller has a range of 1×10^{-3} Torr to 20 Torr. It utilizes a Televac 2A thermocouple vacuum sensor. It has a red, three-digit, seven segment LED display that displays pressure in units of mTorr and Torr. The MV2A has 2 set points relays, and a 0-5 Volt analog output.

Visit the Televac website at www.televac.com for a full list of products.

Dimensional Drawings



Ordering Information

2A Sensor Part Number

1/8" NPT Nickel Plated Brass	2-2100-10
1/8" NPT Stainless Steel	2-2126-011
NASA 2A Mini 1/8" NPT Stainless Steel	2-2100-31
NW16 (DN16 ISO-KF) Stainless Steel	2-2126-030
2A Cable, Coiled	2-9800-081

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