

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

### Operating Specifications<sup>1</sup>

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

### Physical Characteristics

<b>Housing</b>	Plastic
<b>Electrical Connections</b>	Power cord (IEC 60320 C-13)
<b>Weight with Sensor (typical)</b>	1050 g (2.31 lbs)
<b>Weight without Sensor</b>	878 g (1.94 lbs)
<b>Dimensions</b>	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](http://www.televac.com) for a full list of applications.

### Ratings and Compliance

- IP40

<sup>1</sup> See the Televac website at [www.televac.com](http://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

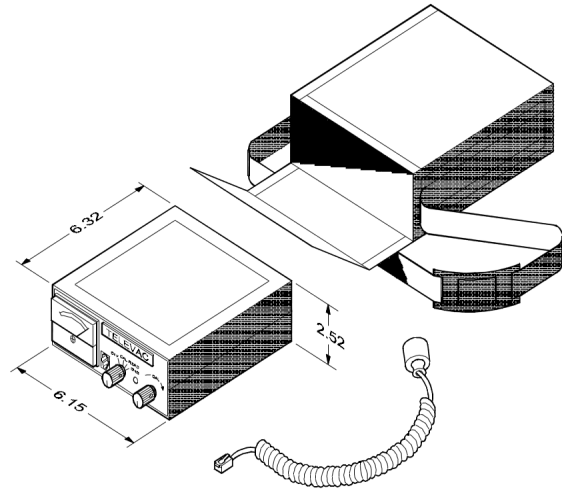
Nickel Plated Brass Sensors	Stainless Steel Sensors
Nickel	Nickel
Glass	Glass
Gold	Gold
Tophet	Tophet
Cupron	Cupron
Solder	Stainless Steel

### Related Products

MV2A Thermocouple Controller—This controller has a range of  $1 \times 10^{-3}$  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](http://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
<b>2A Cable, Coiled</b>	<b>2-9800-081</b>

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