

## 2A VacuMini Thermocouple Sensor

Part Number: 2-2100-102



Operating Specifications <sup>1</sup>	
Operating Range	1 x 10 <sup>-3</sup> to 20 Torr
Analog Output	Controller-dependent
Supply Voltage	Controller-dependent
Maximum Voltage	5 V
Maximum Power	55 mW
Maximum Filament Temperature	250° C
Mounting Orientation	Any
Calibration Medium	Dry air or nitrogen
Overpressure	250 PSI
Analog Output Resolution	Controller-dependent
Operating Temperature	-20° to +70° C
Storage Temperature	-40° to +85° C
Bakeout Temperature	140° C
Response Time	≤ 1 s
Accuracy	
1 to 10 mTorr	±1 mTorr
10 to 100 mTorr	±10% of reading
100 mTorr to 1 Torr	±20% of reading
1 to 20 Torr	Indication only
Analog Output	±10 mV

Physical Characteristics	
Electrical Connections	4-Pin Mates w/Bendix PC-06A-8-4S SR
Weight	28 g (0.062 lbs) (without tether)
Dimensions	See dimensional drawings

Materials Exposed to Vacuum	
Gold	
Glass	
Stainless Steel	
Tophet	
Cupron	

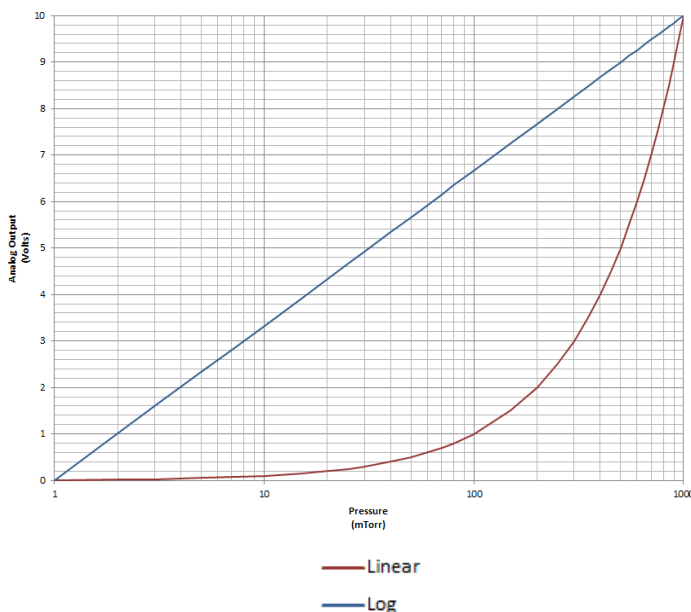
- ### Benefits
- Competitively priced
  - Compact design
  - Gasketed and tethered military grade weather cap
  - Operation in any physical orientation
  - Rugged and simple construction
  - Excellent customer support
  - Designed and manufactured in the United States of America

### Description

The VacuMini is a commercial version of Televac's 2A NASA sensor. This thermocouple sensor has a measurement range from 1 x 10<sup>-3</sup> up to 20 Torr. It indirectly measures absolute pressure by detecting the thermal dissipation of a filament. It includes a tethered cap that provides IP67 protection for the recessed electrical pins. It also has less than 25% of the internal volume of the Televac 2A vacuum sensor.

The VacuMini can be operated by several Televac controllers, including the MM200, MC300, B2A, Compact 2A, Vacuguard, and MV2A.

### Analog Output Behavior (MM200)



### Ratings and Compliance

- RoHS compliant

<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.



