

2A Thermocouple Sensor

Part Number: 2-2100-10, 2-2100-0XX, and 2-2126-0XX

Operating Specifications		
Operating Range	1 x 10 ⁻³ to 20 Torr	
	1 x 10 ⁻⁴ to 1000 Torr (MX2A)	
Analog Output	Controller-dependent	
Maximum Filament Temperature	250° C	
Mounting Orientation	1 x 10 ⁻³ to 20 Torr: Any	
	20 to 1000 Torr: Vertical	
Calibration Medium	Dry air or nitrogen	
Overpressure	150 PSI	
Analog Output Resolution Controller-dependent		
Operating Temperature	0 °C to 50 °C	
Storage Temperature	-40 °C to 85 °C	
Maximum Bakeout Temperature	120° C (brass)	
iviaximum bakeout remperature	200° C (stainless steel)	
Response Time	≤ 2 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	
Accuracy (MX2A)		
0.1 to 1 mTorr		
1 to 10 mTorr	== :::: •::	
10 mTorr to 10 Torr		
10 to 100 Torr		
100 to 1000 Torr	±10% of reading (vertical mount)	

Physical Characteristics	
Electrical Connections	Octal male
Weight	126 g (0.28 lbs) (NW25)
Dimensions	See dimensional drawings

Materials Exposed to Vacuum	
2A P/N: 2-2100-10, 2-2100-0XX	2A P/N: 2-2126-0XX
Gold	Gold
Solder	Glass
Glass	Alloy 52
Alloy 52	304 Stainless Steel
Nickel	Tophet
Tophet	Cupron
Cupron	

Ratings and Compliance

RoHS compliant

Description

The 2A thermocouple sensor has a measurement range from 1 x 10^{-4} up to 1000 Torr. It indirectly measures absolute pressure by detecting the thermal dissipation of a filament. This sensor is available in Brass and Stainless Steel with a variety of fittings to fit your system's requirement.

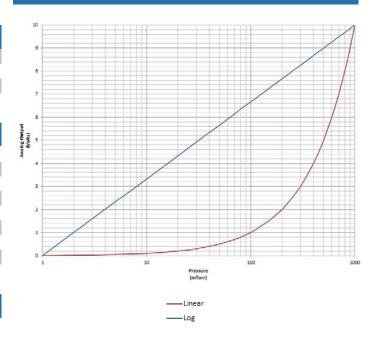
The 2A can be operated by a variety of Televac controllers and active gauges, see page 2 under Related Products for a full list of products including part numbers.



Benefits

- Competitively priced
- Compact, robust design
- Numerous fittings available
- Excellent resolution and repeatability
- Minimal sensor to sensor output variation
- Excellent customer support
- Designed and manufactured in the United States of America

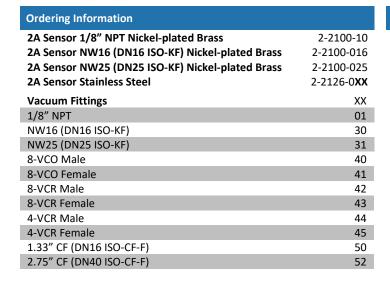
Analog Output Behavior (MM200)





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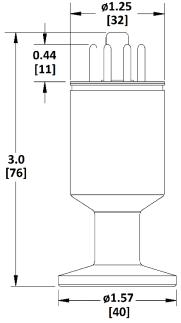


Related Products	
Description	Part Number
MX2A Active Gauge	2-8910-1XX
MM200 Vacuum Controller	2-7900-20
MC300 Vacuum Controller	2-4502-301
MV2A Controller	2-7900-071
Compact 2A Controller	2-3014-042
Vacuguard Portable Controller	2-3001-102
B2A Portable Controller	2-3001-100

Visit our website at www.frederickscompany.com for a full list of compatible instruments.

ELEVA THE FEDERIC 2151 9477-2500 1946 2-75

Dimensional Drawings



*NW25 SS Fitting

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