

# **MP2AR Remote Thermocouple Gauge**

Range: 1 - 20,000 Microns

- PERFORMANCE Provides repeatable vacuum measurement
- DESIGN Rugged self-contained system will provide reliable and long lasting operation in the most demanding of industrial applications
- EFFICIENCY Easy to replace sensors with zero adjustment
- Economy Cost effective unit for fundamental applications



### **Description**

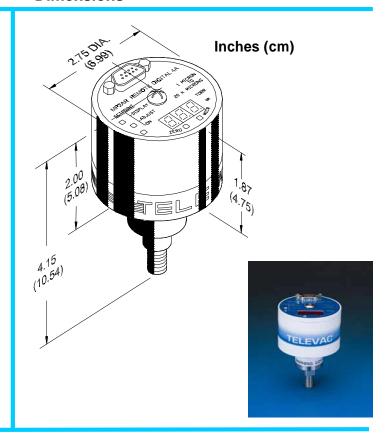
The MP2AR series Remote Thermocouple Gauges are compact, durable, cost advantageous and repeatable vacuum measuring systems. The rugged 2A Thermocouple sensor design withstands harsh operating environments and the MP2AR's compact design will fit in almost any space area and can be mounted in any position. The self-contained electronics allows you to measure vacuum without using traditional large panel-mount instrumentation systems, clearly a more economical solution. The linear 0-10V output signal can be used for remote displaying and controlling of your vacuum measurement system. The easily adjustable setpoint feature uses a Form C relay contact allowing you to control other functions of your process.

#### **Applications:**

Cryogenics Heat Treatment Coating Process
Pharmaceutical Products Electron Beam Welders

Petrochemical Textile

#### **Dimensions**



### **Ordering Information**

### **Specifications**

MP2AR Analog output with LED Display Display range: 1 x 10-3 to 20 Torr 1 relay contact, Part Number 2 - 7910 - X YY

X		0 –10 V Output			
	Linear:	0 to 1000 microns			
	10 volts = 1,000 microns				
1		0 volts = 0 microns	_		
'		Includes Non-Linear Full Scale			
		0.88  volts = 20,000  microns			
		10 volts = 0 microns			

### YY Vacuum Fittings

	G		
10	1/8" NPT Nickel Plate Brass		
10	Following are Stainless Steel Connections		
01	1/8" NPT		
11	1/2" Port Diameter		
30	NW16 KF Flange		
NW2	5 KF Flang§ 1		
32	NW40 KF Flange		
40	8 VCO male type		
41	8 VCO female type		
42	8 VCR male type		
43	8 VCR female type		
50	.33" Conflat Flange		
2.75	'Conflat Flange 52		

Sensor Only Replacements	Part Number
2A Sensor w/ 1/8" NPT, Ni Brass 2A Sensor w/ 1/8" NPT, Stainless	2-2100-10 2-2126-001
2A Sensor w/ NW 16, Stainless others available upon request, contact	2-2126-030 et factory
Cables	
10 ft. 9 pin to Strip & Tin Leads 20 ft. 9 pin to Strip & Tin Leads	2-9852-010 2-9852-020

35 ft. 9 pin to Strip & Tin Leads

50 ft. 9 pin to Strip & Tin Leads

Range	1 to 20,000 microns		
Accuracy	+/- 1 micron 0-10 microns +/- 10% of reading 10 to 100 microns +/- 20% of reading 100 to 1000 microns		
Mounting Orientation	None		
Input Voltage/Power Setpoint Relay	Required 24V DC @ 100 mA		
	Form C Contact 24V .5 A rating		
Operating Temperature Calibration Medium	+ 15 to +50 C		
Sensor Material	Dry Air or Nitrogen		
Overpressure Tolerance	Stainless Steel or Nickel Plated Brass		
	150 PSI		

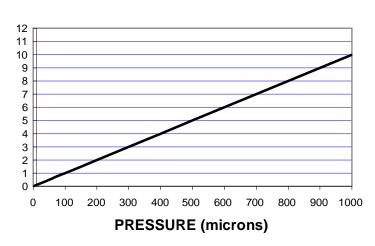
#### **Electrical Connections**



- 1. Relay Normally open
- 2. Relay normally closed
- 3. +24 Volt power
- 4. Power common
- 5. Linear signal output
- 6. Relay common contact
- 7 Non-linear signal output
- 8. Signal return
- 9. Set point output

### **Output Graph**

## 2A (linear)



2-9852-035

2-9852-050