



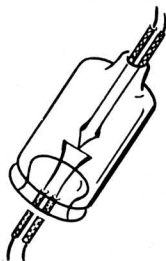
# VACUUM PRODUCTS INC.

*Thermocouple Specialists*

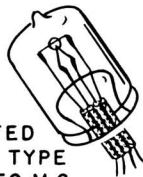
20 YEARS EXPERIENCE

**NOW!**

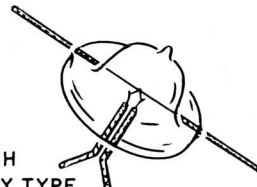
## A RELIABLE SOURCE FOR VACUUM THERMOCOUPLES!



VERY HIGH FREQUENCY TYPE  
D C TO 300 M.C.



INSULATED HEATER TYPE  
D.C. TO 50 M.C.



ULTRA HIGH FREQUENCY TYPE  
D.C. TO 500 M.C.

STANDARD CONTACT TYPE  
D.C. TO 30 M.C.



LISTING OF STANDARD THERMOCOUPLES  
INTERMEDIATE RANGES SUPPLIED TO ORDER  
CORRESPONDENCE INVITED ON SPECIAL THERMOCOUPLES AND REQUIREMENTS

### STANDARD CONTACT THERMOCOUPLES

Range	Code	Resistance		Couple Output Open Circuit	List Price	
		Heater	Couple		Quantity 1 - 4	Quantity 5 - 24*
1 MA	A	1800	12	6 Millivolts	\$27.00	\$18.00
1.5 MA	B	800	12	7 Millivolts	22.50	15.00
2 MA	C	750	12	7 Millivolts	18.00	12.00
5 MA	D	75	8	7 Millivolts	13.50	9.00
7. MA	E	75	8	7 Millivolts	11.25	7.50
7.5 MA	F	40	8	7 Millivolts	11.25	7.50
10 MA	G	20	8	6 Millivolts	11.25	7.50
15 MA	H	14	4	7 Millivolts	11.25	7.50
20 MA	I	10	4	7 Millivolts	10.50	7.00
25 MA	J	7	4	7 Millivolts	10.50	7.00
50 MA	K	5	4	7 Millivolts	10.50	7.00
100 MA	L	2	4	7 Millivolts	10.50	7.00
150 MA	M	1.5	4	7 Millivolts	10.50	7.00
250 MA	N	.6	4	7 Millivolts	10.50	7.00
500 MA	O	.4	4	7 Millivolts	12.00	8.00
1000 MA	P	.25	4	7 Millivolts	12.00	8.00

FOR INSULATED HEATER THERMOCOUPLES — Add \$1.00 to Contact Price  
\*Quantity Discounts of 25 and Up Available Upon Request

PRICES—  
FOB MOUNT VERNON, N. Y.  
TERMS—1% 10 DAYS, NET 30

THERMOCOUPLES ARE SUPPLIED  
IN TWO SIZES:  
1/2" DIAMETER x 1" LONG  
7/16" DIAMETER x 3/4" LONG  
CONNECTION LEADS 2 1/2" LONG

RESISTANCES ARE WITHIN  
± 10% OF LISTED VALUES

A RECOMMENDED MILLIVOLT-  
METER FOR MEASURING  
THERMOCOUPLE OUTPUTS IS  
2 MILLIVOLTS, FULL SCALE  
10 OHM RESISTANCE  
200 MICROAMPERES FULL SCALE  
(This allows the use of series  
resistance which creates a  
fast action instrument)

WHEN DESIGNING THERMO-  
COUPLE MEASURING CIRCUITS,  
DO NOT NEGLECT THE HEATER  
RESISTANCE OF THE THERMO-  
COUPLE USED

CASE MOUNTED THERMOCOUPLES  
AVAILABLE AT AN ADDITIONAL  
COST OF \$8.50

VACUUM THERMOCOUPLES are AC-DC transfer devices with true RMS response combined with high sensitivity and capable of high frequency operation. These extremely versatile devices are widely used for such purposes as:—

- Antenna current measurements
- Audio and RF generator output measurements
- High sensitivity (Up to 1000 ohms per volt) AC voltmeters
- True RMS current and voltage measurements for form factor determinations
- AC and DC voltmeters or ammeters in a single instrument
- AC measurements in cases of severe waveform variations such as random noise, speech or music voltages, spark discharges, etc.
- In analog type computations as squaring devices (The actual exponent varies from 1.88 to 1.99 under various conditions of operation)
- Numerous other applications where a DC output approximately proportional to the square of an input current, either AC or DC is required.