

**FEATURES**

- > J AND K THERMOCOUPLES
- > F OR C CALIBRATION
- > COLD JUNCTION COMPENSATION
- > LOW POWER CONSUMPTION
- > 10 RESOLUTION
- > LOW COST
- > OPEN T/C DETECTION

**FLAT PACK  
2 X 3 X 1/2**



- \*FRONT OR REAR PANEL MOUNT
- \*NO CUT-OUT REQUIRED
- \*QUICK CONNECTOR
- \*STYLISH HOUSING

**NAKED PANEL MOUNT  
1.9 X 3.45 X 1/2**



- \*QUICK FLAT RIBBON CONNECTOR
- \*REAR PANEL MOUNT WITH SPACERS

**NAKED P.C. MOUNT  
1.9 X 2.9 X 1/2**



- \*PLUG-IN, SOLDER, OR WIRE WRAP TO MOTHER BOARD ON 0.1" CENTERS

**DESCRIPTION**

The Model 536 is capable of measuring temperature with Type K or Type J Thermocouples in either Fahrenheit or Centigrade Scale. The internal cold junction auto-compensation allows the temperature at the cold junction to vary from 0° to 300°C without affecting the accuracy of the hot junction. The accuracy of the 536 is the same as the thermocouple used, (about +/-30°C). Since the 536 has no provisions for linearization, the TC linearity commands the accuracy. For best results, specify special range within 300°. Ex: 0 to 300°C to 600°F, etc.

**FLAT PACK:** Front mounting is accomplished by drilling a 3/8" (10 mm) round hole in the panel. Remove nylon nut, clean surface on front panel, apply the double sided tape to back of flat pack, pass wires through hole, stick on Flat Pack to panel and finger tight nylon nut.

**P.C. NAKED:** Two rows of 5 pins each on 0.1" centers facilitates the mounting on a socket, P.C. Board or wire wrapping.

**P.M. NAKED:** Mounting is accomplished by using 4 each 1/2" plastic spacers for #4-40 screws (not supplied), making the window area cut out and the potentiometer adjustment holes. Connections are easily made thru the quick flat ribbon connector which is supplied.

**POWER SUPPLY:** Unit operates from 5 VDC or 9 VDC. An optional 115 VAC 60 Hz Plug-In Power Pack is available. See ordering and mechanical information.

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**ORDER INFORMATION**

MODEL 536	X	X	X	X
INPUT RANGE	!	!	!	!
0-Type K-°F-----	!	!	!	!--0--None-----
1-Type K-°C-----	!	!	!	!--1--Included-----
2-Type J-°C-----	!	!	!	POWER SUPPLY
3-Type J-°F-----	!	!	!	!--0--None-----
	!	!	!	!--1--9 VDC Wall Mount---
	!	!	!	MOUNTING STYLE
	!	!	!	!--0--Flat Pack/Wires-----
	!	!	!	!--7--P.C. Mount-----
	!	!	!	!--8--Panel Mount-----

Mating Connector Included

SPECIFICATIONS AND PRICE LIST SUBJECT TO CHANGE WITHOUT NOTICE

**BEZEL AND FILTER:** A stylish bezel and filter (clear for LCD) is offered to enhance your panel when using the naked versions. See ordering and mechanical information. Not required for Flat Pack.

**SPECIFICATIONS AT 25°C**

Resolution-----	1 Degree
Accuracy of Instrument-----	+/- 0.1% +/-1 Digit
Cold Junction Compensation Range--	0° to 30°C
Samples/Second-----	2 Nominal
Input-----	1000 Meg. $\Omega$
Bias Current-----	100 PA
Operating Temperature-----	0°C to 50°C
Storage Temperature-----	-10°C to 60°C
Power Requirement---	9VDC +/- 10% or 5VDC 3% at 2mA
Maximum Lead Resistance-----	500 $\Omega$
Open Thermocouple-----	Display Reads -1

**IMPORTANT NOTES**

1. TC is not isolated from power inputs.
2. Since the Cold Junction Compensator is on board, use only TC extension wire of the same type (J or K) and solder with silver solder or use TC connector for TC type.
3. If regular copper extension wire is required for the TC connections, specify: External CJC (cold junction compensator) under p/n, the transistor (2N3904) will be shipped separately. Connect base and collector to +5V line (brown/4) and emitter to cold junction terminal (5/Green).

**TERMINAL DESCRIPTION**

1 GRAY	+9V POWER INPUT.
2 YELLOW OR WHITE	+TC INPUT
3 RED	-TC INPUT
4 BROWN	+5VDC +/- 3% POWER INPUT
5 GREEN	COLD JUNCTION EMITTER (IF USED EXT.)
6 BLACK	POWER GROUND
7 ORANGE	D.P. COMMON
9 BLUE	1XXX.X D.P. CONNECT TO PIN 7 IF REQ'D