

INPUT : THERMOCOUPLE 'K'



- Resolution : 0.1/1°C
- Battery : Standard 9V
- Display : 3 ½ digit, 0.5" LCD with maximum reading of 1999
- Accuracy : ± (0.3% of reading +1°C) -50°C to 1000°C  
± 0.5% of reading +1°C) 1000°C to 1300°C
- Large variety of probes for all applications

**SPECIFICATIONS** All specifications at ambient of 25 °C, unless specified otherwise

**ELECTRICAL**

**Measurement range** -50°C ~ 1300°C  
**Resolution** 1°C, 0.1 °C  
**Accuracy** ± (0.3% rdg + 1°C) -50°C ~ 1000°C  
 ± (0.5% rdg + 1°C) 1000°C~1300°C  
 Accuracy is specified for ambient 18°C to 28°C for 1 year. It does not include thermocouple error

**Temperature coefficient of accuracy** 0.1 x (applicable accuracy) / °C,  
 for ambient 0~18°C and 28~50°C  
**Display update rate** 2.5 times per second

**ENVIRONMENTAL**

**Ambient operating range** 0 ~ 50°C  
**Storage temperature** -20 ~ 60°C  
**Relative humidity** 0 ~ 90%

**GENERAL**

**Display** 3½ digit, 0.5" (12.7 mm) liquid crystal display (LCD) with maximum reading of 1999

**Battery** Standard 9V battery (NEDA 1604, IEC 6F22)

**Battery life** 100 hours typical with carbon zinc battery

**Dimensions (in mm)** 130(H) x 66(W) x 17(D)  
**Weight** 150 gm

**Over range/Sensor break indication** Display will indicate 1

**Battery replacement** "BAT" appears on the LCD display when replacement is needed See overleaf. These are to be ordered separately.

**Thermocouple probes**

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## Standard 'K' Thermocouple Probes\*

Sr.No.	Description	Dia(mm)	Length(mm)	Tmax(°C)	Order Code	Application Details
1	General Purpose Immersion	4.5	300	800	BKC11501100	Used for air & liquid immersion measurements
2	Quick Response Immersion	3	300	600	BKC11521100	Small dia & MI construction gives fast response in air & liquids
3	High Temperature Immersion	3	600	900	BKB11531100	Inconel 600 sheath & MI construction allows measurement in air & liquids upto 1150 °C. Available in 3 mm, 4.5 mm, 6mm, 8 mm diameters. Not designed for salt bath / molten metal / flue gas applications
4	High Temperature Immersion	4.5	600	1000	BKB11551100	
5	High Temperature Immersion	6	600	1150	BKB11541100	
6	High Temperature Immersion	8	600	1150	BKB11511100	
7	Teflon Coated Immersion	4	300	200	BKC11561100	Special teflon coating allows use in corrosive acids & alkalies. Teflon coating : 0.5 mm thick
8	Needle Probe	1.5	150	600	BKC11581100	Very small diameter MI thermocouple gives very fast response in air & liquids
9	Prick Probe	4/3	50	400	BKC11621100	Drilled barstock sheath for long life
10	Air Probe	8	300	400	BKC10641300	For air or gas in ducts, chambers, etc. Perforated shield prevents radiation heating, very sensitive
11	Leaf Surface Probe : 400 °C	8	100	400	BKC10681300	Low mass ensures fast response for measuring flat surfaces
12	Leaf Surface Probe : 600 °C	9.5	150	600	BKC10711300	For flat surfaces upto 600 °C
13	Leaf Surface Probe : 800 °C	13	300	800	BKC10701300	For flat surfaces upto 800 °C
14	Bow Curved Surface Probe	9.5	200	800	BKC10741300	For static convex surfaces, rollers, etc
15	Smithy Probe	9.5	600	1200	BKB10781300	For the temperature measurement of uneven metallic surfaces & ingots. Spring loaded elements ensure proper alignment & contact
16	Rotary Surface Probe	12	-	250	BKC10801300	For moving plane surfaces & rotating convex as well as concave surfaces

\* To be ordered separately

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