

INPUT : 8 TC, RTD



- Universal input :
TC : B, E, J, K, N, R, S, T
RTD : Pt100, Pt50, Pt200
Linear : 0~50 mV
- Resolution : 1, 0.1
- Battery : Standard 9V
- Display : 4 digit, 7 segment 0.5" (12.7mm) LCD display with maximum reading of 9999
- 0.1% Linearisation accuracy
- Software calibration
- Large variety of probes for all application

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

INPUT		PROGRAMMABLE PARAMETERS	
Input type	Thermocouple : B, E, J, K, N, R, S, T RTD : Pt100, Pt50, Pt200 Linear : 0~50 mV	Input type	Thermocouple : B, E, J, K, N, R, S, T RTD : Pt100, Pt50, Pt200 Linear : 0~50 mV
Range	See Table 1	Unit	°C, °F, °K
Input units	°C, °F, °K	Resolution	1, 0.1
ACCURACY		Auto shutoff	Off, 1, 5, 10, 15 minutes
Linearity & calibration	See Table 1	Filter	0.4, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
Cold junction compensation	±1 °C	Bias	-10.0 to 10.0
Temperature effect on accuracy	±0.5% of span / 25 °C	OTHER	
INDICATION		Battery standard	9V (NEDA 1604; IEC 6F22)
Display	4 digit, 7 segment 0.5" (12.7mm) LCD	Battery life	70 hours typical with Carbon Zinc battery
CALIBRATION		Battery replacement	"LOBAT" message appears on the LCD display when replacement is needed
Zero & span	Through front panel keys & display	Thermocouple & RTD probes	See overleaf. These are to be ordered separately
		Key Board	Tactile, 3 keys
		Dimensions (in mm)	130(H) x 66(W) X 17(D)
		Weight	150 gm
		ORDER CODE	2208

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TABLE 1

SENSOR / INPUT	RANGE LIMITS (°C / EU)		RANGE IN WHICH ACCURACY IS SPECIFIED		TYPICAL ACCURACY AT 30 °C (°C / EU)	WORST CASE ACCURACY (°C / EU)
	LOW SCALE	HIGH SCALE	LOW SCALE	HIGH SCALE		
Pt - 6% Rh / Pt - 30% RH (B)	400	1820	400	1820	± 5	± 6
Chromel / Constantan (E)	-270	1000	0	1000	± 2	± 3
Iron / Constantan (J)	-210	760	0	760	± 2	± 3
Chromel / Alumel (K)	-270	1372	-50	1200	± 2	± 3
Nicrosil / Nisil (N)	-270	1300	-50	1200	± 2	± 3
Pt / Pt - 13% Rh (R)	0	1760	0	1760	± 4	± 6
Pt / Pt - 10% Rh (S)	0	1760	0	1760	± 4	± 6
Copper / Constantan (T)	-270	400	-200	400	± 2	± 4
Pt50	-175	850	-175	400	± 0.2	± 0.5
Pt100, 3-wire	-220	850	-200	400	± 0.2	± 0.5
Pt200	-200	500	-200	400	± 0.2	± 0.5
Linear voltage (0~50 mV)	-1999	9999	-1999	9999	± 0.1%	± 0.25%

Standard RTD Probes To be ordered separately

Pt100, Class 'B'

Sr.No.	Description	Dia(mm)	Length(mm)	Range (°C)	Order Code	Application Details
1	Standard Immersion	5	300	0~250	AC12001210	Used for air & liquid immersion measurements.
2	Standard Immersion (M.I)	5	300	0~400	AC13001210	Mineral Insulated (MI) type. Vibration and shock proof.
3	Standard Immersion (M.I)	5	300	-100~400	AC13011210	Mineral Insulated (MI) type. Vibration and shock proof, suitable for sub-zero temperature.
4	Quick Response Immersion (M.I)	3	300	0~400	AC13021210	Mineral Insulated. Hence bendable and vibration proof. Fast responding.
5	Teflon Coated Immersion	6	300	0~200	AC12061210	Special TEFLON coating allows use in corrosive acids and alkalis.
6	Needle Probe	2	150	0~200	AC12081210	Very small diameter gives fast response in air and liquids.
7	Prick Probe	4/3	50	0~200	AC12121210	For molten rubber, frozen food, etc. Heavy duty construction.
8	Air Probe	8	300	0~250	AC12141310	For air or gas in ducts, chambers, etc. Exposed RTD element with perforated shield prevents radiation heating.
9	Air Probe	8	300	0~400	AC12151310	For air or gas in ducts, chambers, etc. Exposed RTD element with perforated shield prevents radiation heating.

Consult us for Class A accuracy, other sheath lengths, cable lengths, etc.

Standard TC K Probes* To be ordered separately

Sr.No.	Description	Dia(mm)	Length(mm)	Range(°C)	Order Code	Application Details
1	General Purpose Immersion	4.5	300	-50~800	KC11101110	Used for air & liquid immersion measurements
2	Quick Response Immersion	3	300	-50~600	KC11021110	Small diameter & MI construction gives fast response in air & liquids
3	High Temperature Immersion	3	600	-50~900	KB11031110	INCONEL 600 sheath & MI construction allows measurement in air & liquids upto 1150 °C. Not suitable for salt bath / molten metal / flue gas applications.
4	High Temperature Immersion	4.5	600	-50~1000	KB11051110	
5	High Temperature Immersion	6	600	-50~1150	KB11041110	
6	High Temperature Immersion	8	600	-50~1150	KB11011110	
7	Teflon Coated Immersion	4	300	-25~200	KC11061110	Special teflon coating allows use in corrosive acids & alkalis. Teflon coating : 0.5 mm thick
8	Needle Probe	1.5	150	-50~600	KC11081110	Very small diameter MI thermocouple gives very fast response in air & liquids. Protective cap provided.
9	Prick Probe	4/3	50	-50~400	KC11121110	For Molten rubber, frozen food, etc. Heavy duty construction.
10	Air Probe	8	300	-25~400	KC10141310	For air or gas in ducts, chambers, etc. Perforated shield prevents radiation heating, very sensitive.
11	Leaf Surface Probe : 400 °C	8	100	-25~400	KC10181310	Low mass ensures fast response for measuring flat surfaces. Protective cap provided.
12	Leaf Surface Probe : 600 °C	9.5	150	-25~600	KC10211310	For flat surfaces upto 600 °C
13	Leaf Surface Probe : 800 °C	13	300	-25~800	KC10201310	For flat surfaces upto 800 °C
14	Bow Curved Surface Probe	9.5	200	-25~800	KC10241310	For static convex surfaces, rollers, etc
15	Spring Surface Probe	6	200	-25~400	KC10261310	For small surfaces such as electronic components, Its very low mass ensures quick response even on non-metals. Also available straight or with 45° bend. Protective cap provided.
16	Smithy Probe	9.5	600	-50~1200	KB10281310	For the temperature measurement of uneven metallic surfaces & ingots. Spring loaded elements ensure proper alignment & contact
17	Rotary Surface Probe	12	-	-25~250	KC10301310	For moving plane surfaces & rotating convex as well as concave surfaces. Application details to be informed while ordering.

SALES INQUIRIES



AN ISO 9001:2000 COMPANY

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