

DUAL CHANNEL THERMOMETER

Model : TM-914C



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1. FEATURES

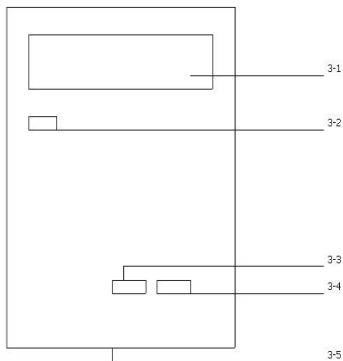
- * Dual channel input.
- * LCD display allows clear read-out even at high ambient light environment.
- * Heavy duty & compact housing case.
- * Operates from 006P DC 9V battery.
- * Low power consumption.
- * Meet any standard type K(NiCr-NiAl) probe.
- * Fitted with standard type K input measuring socket.
- * Build in precision cold junction compensation circuit.
- * Thermocouple sensor for Temp. measurement, fast response time.
- * Used the durable, long-lasting components, including a strong, light weight ABS-plastic housing case.
- * Full line, wide range optional thermocouple probe.

2. SPECIFICATIONS

Display	3 1/2 digits with annunciator, 15 mm (0.5") LCD.	
Sensor Type	Thermocouple K(NiCr-NiAl), optional.	
Measurement	Two channel input (T1, T2).	
Range	-40 to 1200 °C.	
Resolution	1 °C.	
Accuracy (± 3.5 %)	0 to 750 °C	1%+1 °C
	750 to 1000 °C	typ. -(2%+1 °C)
	1000 to 1200 °C	typ. -(4%+3 °C)
	0 to -20 °C	typ. 2 °C
	-20 to -40 °C	typ. 3 °C
Sampling Time	Approx. 0.4 second.	
Power Supply	006 P DC 9 V battery.	
Power Current	Approx. DC 1.8 mA.	

Dimension	108 x 73 x 23 mm (4.3 x 2.9 x 1.4 inch).
Weight	140 g/0.31 LB.
Accessory	Operation Manual.... 1 PC.

3. FRONT PANEL DESCRIPTION



- 3-1 Display
- 3-2 Power Off/On Switch
- 3-3 T1 Input Socket
- 3-4 T2 Input Socket
- 3-5 Battery Compartment/Cover

4. MEASURING PROCEDURE

4-1 One probe(single channel) measurement:

Insert one temp. probe plug into the "T1 Input socket T1"(3-3), then slide the OFF/T1/T2 selector(3-2) to the "T1" position. Display will show the temperature reading that measured from the probe.

4-2 Two probe(dual channel) measurement:

- a. Insert first temp. probe plug into the socket T1(3-3).
- b. Insert second temp. probe plug into the socket T2(3-4).
- c. Display will show the temperature reading of first probe, if slide the "Off/T1/T2 selector"(3-2) to the "T1" position.
- d. Display will show the temperature reading of second probe, if slide the "Off/T1/T2 selector"(3-2) to the "T2" position.

5. MEASURING CONSIDERATION

- 5-1 When insert the probe plug into the temp. input socket T1(3-3) or T2(3-4), please take care to observe the correct polarity.
- 5-2 When the probe plug is first inserted into the thermometer socket(T1,T2), or if the probe is changed, the plug must be allowed to stabilize at temperature of the socket, which is in thermal contact with cold junction compensation device, for greatest accuracy is to be achieved. This will take a couple of minutes and only apply if the probe plug has previously been exposed to an ambient temperature different to that thermometer.

6. BATTERY REPLACEMENT

- (1) When the left corner of LCD display shows "LO BAT" , it indicates that a normal battery output is less than 6.5 V - 7.5 V and is necessary to replace the battery. However, in-spec. measurement may still be made for several hours after LOW BATTERY INDICATOR appears before the instrument become inaccurate.
- (2) To replace the battery, remove the battery cover(3-5) on the rear cabinet.
- (3) Take out the battery, install a new one(006P DC 9V) and reinstall the battery cover again.

7. OPTIONAL TEMPERATURE PROBE & OTHER ACCESSORIES

TP-01	-40 𠄎 to 250 𠄎 continuous (300 𠄎 short-term). It is an ultra fast response naked-bead thermocouple wire, suitable for many general purpose application.
TP-02A	-50 𠄎 to 900 𠄎 (-50 𠄎 to 1650 𠄎).
	Dimension : 10cm tube, 3.2mm Dia. Applications : High temperature, Penetration & Immersion applications.
TP-03	-50 𠄎 to 1200 𠄎 (-50 𠄎 to 2200 𠄎).
	Dimension : 10cm tube, 8mm Dia. Applications : High temperature, Penetration & Immersion applications.
TP-04	-50 𠄎 to 400 𠄎 (-50 𠄎 to 752 𠄎).
	Dimension : Temp. sensing head-15 mm Dia. Probe length-120 mm. Applications : Precision surface temp. measurement usage.