

INSTRUCTION MANUAL

K TYPE THERMOMETER



CE

Model: ■ 8801 ■ 8803



INTRODUCTION

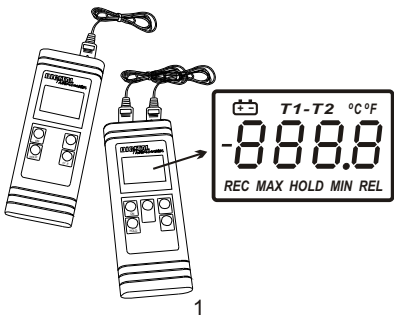
The 8801 and 8803 are 3 1/2 digit, hand-held thermometer designed to use K-type thermocouple as temperature sensor.

8801 For 1 K-type Thermocouple input

8803 For 2 K-type Thermocouple input

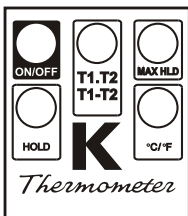
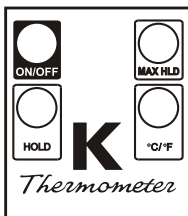
SAFETY

- ✘ To avoid electrical shock, disconnect the thermocouple connectors from the thermometer before removing the battery cover and do not use this meter on voltage at the measurement surface beyond 24V AC or 60V DC.
- ✘ To avoid damage or burns, do not apply this meter in microwave ovens.
- ◎ To ensure lead quality, avoid repeating sharp bends in the leads as it can damage the thermocouple leads, especially near the connector.



Model: 8801
Single Input

Model: 8803
Dual Input



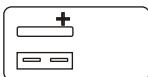
BUTTON DESCRIPTION

- ON/OFF** Power ON and Power OFF
- °C/°F** Unit selectable °C or °F
- HOLD** Freeze the current reading
- MAX HLD** Record Maximum reading
- T1.T2** T1 temperature or
- T1-T2** T2 temperature or differential temperature between T1 & T2

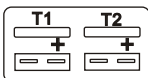
OPERATION

✳️ Plug thermocouple in the meter as shown Figure 1 or 2.

Press **ON/OFF** button to start. Fig. 3 shows the normal display when either T1 or T2 thermocouple is plugged in.



#8801
Fig.1



#8803
Fig.2

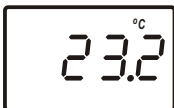


Fig.3

SELECTING °C / °F

Press **°C/°F** button to select °C or °F. The display will show "°C" or "°F" to indicate which scale has been selected.

See Fig.3 and Fig.5 ,an example to toggle unit from °C to °F.

NO-SLEEP MODE DISABLEMENT

Press **ON/OFF** button to turn off the meter. The meter will auto shut off if no button is pressed within 20 minutes.

To disable auto power off, press **HOLD** and **ON/OFF** key simultaneously, until an "n" appears on the screen (See Fig.4), then release **ON/OFF** button and **HOLD** button, the meter turns to the normal reading (Fig.5).

Operate the same procedure before using the meter, otherwise, the meter is default to the auto power off about 20 minutes.



Fig.4

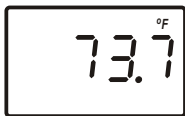


Fig.5

TEMPERATURE MEAS.

The meter displays the temperature of the thermocouple connected to the selected input.

Press **T1.T2/T1-T2** button to display the temperature for T1 input. (Fig.8) Press **T1.T2/T1-T2** button again to display the temperature for T2 input. (Fig.7)

Press **T1.T2/T1-T2** button one more time to display the differential temperature between the two thermocouples.(Fig.9)

The display will show **T1,T2** or **T1-T2** in turns by pressing the same button.

Note:

Model 8801 can only display one temperature. Only make sure the thermocouple is plugged at the left side on the top. No reading but 4 dashes (----) (Fig.6) will be appeared until you plug in a K type thermocouple.

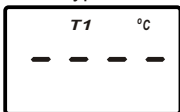


Fig.6

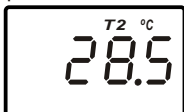


Fig.7

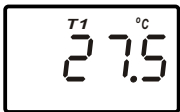


Fig.8

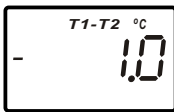


Fig.9

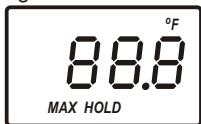
MAX HOLD FUNCTION

Select the desired input, then press the **MAX HLD** button.

The meter will record and update the maximum values. **"MAX" "HOLD"** appears on the display.(Fig.10)

To release the MAX HOLD function, press the **MAX HLD** button again. When the MAX function is set, the meter is recording and will update the maximum measurement display with a new maximum reading .

Fig.10



HOLD FUNCTION

Press the **HOLD** button to apply data HOLD Function. The "**HOLD**" appears on the display then(Fig.11). When HOLD function is set, the meter holds the present readings and stops all further measurement. To release **HOLD** function ,press the **HOLD** button again.

The meter will resume taking measurements.

Fig.11



TROUBLE SHOOTING

? "- - - -" appear.

Check the measurement thermocouple is plugged in the right input. If the screen shows T1, but no thermocouple are plugged in T1 or thermocouple is wrong plugged in T2, four dashes(----) will appear. Put the thermocouple in the correct input .

?  indication.

Replace with a new battery.

MATERIAL SUPPLIED

This package contains:

1. The meter x 1
2. Type K thermocouple probe x 1
3. Battery 9.0volt x 1
4. Instruction manual x 1

SPECIFICATION


RANGE	-50°C to 1300°C (-58°F to 2000°F)
ACCURACY	-50°C to 1000°C ± 0.3% rdg + 1°C 1000°C to 1300°C ± 0.5% rdg + 1°C -58 F to 1800 F ± 0.3% rdg + 2 F (18 to 28°C Ambient Temperature)
DISPLAY	37mm X 42mm LCD, max.
SAMPLING RATES	2.5 per second
DIMENSION	181mm X 71mm X 30mm

Temperature Coefficient:

0.1 times the applicable accuracy specification per°C from 0°C to 18°C and 28°C to 50°C

REPLACING THE BATTERY

Replace your 9-volt battery when:

- ✓ The  icon appears on the left top of the screen (See Fig.12).
- ✓ The display is dimmed or the meter will not power on.

Even if the battery was recently replaced, check its voltage level if you get no response from your instrument.

To replace the battery:

1. Lay the instrument face-down on a clean, flat surface.(See Fig.13)
2. Remove the battery by screw driver follow the arrow sign and observe indicated polarity and close the cover after replacing with a new battery.

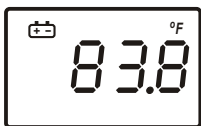


Fig.12

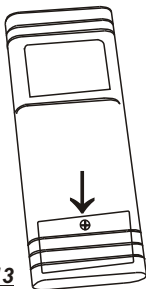


Fig.13

Remove battery from instruments that you do not plan to use for a month or more. Do not leave battery in instrument.

WARRANTY

The meter is warranted to be free from defects in material and workmanship for a period of one years from the date of purchase.

This warranty covers normal operation and does not cover batteries, misuse, abuse, alteration, tampering, neglect, improper maintenance, or damage resulting from leaking batteries. Proof of purchase is required for warranty repairs.

RETURN AUTHORIZATION

Authorization must be obtained from the supplier before returning items for any reason.

When requiring a RA (Return Authorization) , please include data regarding the defective reason, the meters are to be returned along with good packing to prevent any damage in shipment and insured against possible damage or loss .

CE CERTIFICATION

The meter conforms to the following standards:

* **EN 50081-1/1992** : EN 55022

* **EN 50082-1/1997** : EN 55024

(EN 61000-4-2/-3/-8, ENV 50204)

, the meter complies with the essential protection requirements of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.



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- ▲ Thermometer
- ▲ Anemometer
- ▲ Sound Level Meter
- ▲ Air Flow meter
- ▲ Infrared Thermometer
- ▲ K type Thermometer
- ▲ K.J.T. type Thermometer
- ▲ K.J.T.R.S.E. type Thermometer
- ▲ pH Meter
- ▲ Conductivity Meter
- ▲ T.D.S. Meter
- ▲ D.O. Meter
- ▲ Saccharimeter
- ▲ Manometer
- ▲ Tacho Meter
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