DIGITAL THERMOMETER

INSTRUCTION MANUAL

INTRODUCTION

This thermometer is a 3 1/2 digit LCD displaying meter, which driven by 9V battery. Any K-type can be used as the temperature sensor.

SPECIFICATIONS

1. Display: 3 1/2 digit large LCD display, Max. display 1999.
2. Sampling rate: Approx. 2.5times/ sec.
3. Over range display: “1” or “-1”.
4. Low battery indication：LCD display “ ”.
5. Working environment: -10～50℃, relative humidity<80%.
6. Store environment: -20～60℃, relative humidity <80%.
7. Battery: 9V battery, 006P or IEC6F22 or NEDA1604.
8. Battery life: alkaline battery about 200hours，carbon battery about 100hours.
9. Size：130mm（length ）×95mm（width）×28mm（height）.
10. Weight：Approx.240g（including battery）.
11. Accessories：Manual，case, TP01 probe, 9V battery.

TECHNICAL DATA

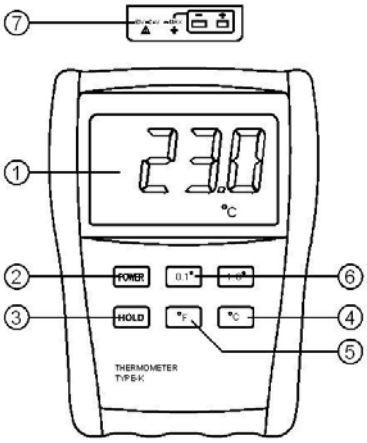
1. Accuracy： ±(a%×reading + digit)
2. Accuracy adjust environment： 23℃±5℃
3. Measurement range： -50℃～1300℃
   -50℉～1999℉
4. Temperature will effect error coefficient： The coefficient is 0.1 ×accuracy/℃ when the temperature is lower than 18℃ or higher than 28℃.

Resolution	Range	Accuracy	
0. 1℃	-50℃～199.9℃	-50℃～199.9℃	±(0.3%+1℃)
0. 1℉	-50℉～199.9℉	-50℉～199.9℉	±(0.3%+1℉)
1℃	-50℃～1300℃	-50℃～1000℃ 1000℃～1300℃	±(0.3%+2℃) ±(0.6%+2℃)
1℉	-50℉～1999℉	-50℉～1000℉ 1000℉～1999℉	±(0.3%+2℉) ±(0.6%+2℉)

Note：1. For ensuring the accuracy, please start to measure for 3 minutes later when the meter turn on.

2. The accuracy of table above not includes the error of probe. Please refer to the accuracy of the probe to adjust it.

PANEL INTRUDUCTION



1. LCD：3 1/2 digit LCD display.
2. Power: Power key
3. HOLD：it will display "HOLD" symbol when you hold the data.
4. ℃ mode selection key.
5. ℉ mode selection key.
6. 0.1℃/1℃ resolution mode selection key:

   -50℃～199.9℃, 0.1℃

   -50℉～199.9℉, 0.1℉

   -50℃～1300℃, 1℃

   -50℉～1999℉, 1℉
7. K-type thermocouple input end, Max. input voltage: DCV 60V or ACV 24V.

OPERATION INSTRUCTION

1. Press Power key; let the meter warm-up for 3 minutes.
2. Insert the thermocouple into the input end.
3. Select the function and range.
4. The probe of thermocouple touches the object need to measure.
5. Read the value.

Warning! If displays over range, it maybe cause by the following:

1. The thermocouple haven't insert into the input end.
2. The thermocouple inserted into the input end, it maybe the open circuit or poor contact.
3. The temperature measured is beyond the range you selected.

K-TYPE THERMOCOUPLE SELECTION

Model	Range	Field	Error
TP01	-50℃～250℃	Any condition	-50℃～250℃ ±2.2℃
TP02	-50℃～750℃	Liquid temperature	-50℃～750℃ ±0.4%
TP03	-50℃～1300℃	Solid temperature	-50℃～1300℃ ±0.3%

DP-6801 Digital K-Type Thermometer Instruction Manual

For current product information, availability, and compatible options, use the verified ThermoMart links below. The preceding pages remain the original manual content.

PRODUCTS USING THIS DOCUMENT

Models: DP-6801, DP-6801-CT, DP-6801-p, DP-6801-S, DT6801

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