2YEAR WARRANTY

RoHS

OMEGA™

User's Guide

HH-25U

J/K/T Single Input Thermocouple Thermometer

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FEATURES

1) Auto power off with disable feature (15 minutes).
2) Single input.
3) Large LCD screen.
4) Data hold function freeze readings on display.
5) Complete with type K bead wire temperature probe and 9V battery.
6) ℃/℉ select function.

MATERIAL SUPPLIED

- Meter
- 9V battery
- Operation manual

SPECIFICATION

Spec./ Model no.	HH-25U
Input	Single K/J/T
K Temp. range	-200~1370℃ (-328~2498℉)
Resolution (K)	0.1℃(0.1℉), over 1000℃ 1℃/1℉
Accuracy (K)	±(0.1% rdg + 0.5°C) for -50~1370°C; others ±(0.1% rdg + 2°C)
J Temp. range	-80~760℃ (-112~1400℉)
Accuracy (J)	±1% of rdg + 1℃/2℉
T Temp. range	-80~400℃ (-112~752℉)
Accuracy (T)	±(0.1% rdg + 0.5°C) for 200~400℃, others ±0.4% rdg + 0.6℃/1.2℉
Temperature Coefficient	0.1 times the applicable accuracy specification per °C from 0°C to 18°C and 28°C to 50°C (32°F to 64°F and 82°F to 122°F)
Function	Max. Min. Hold
Power & size	9V battery, 159 x 55 x 38 mm
Operating Temperature	-10 to 50ºC (14 to 122ºF)

KEYPAD (CONTROLS)

UNIT: Press **UNIT** to select ℃/℉.

HOLD: Freeze display and update function enable or disable.

Press **"HOLD"** to hold and release it to go back to normal measurement mode.

MODE: No function in this mode.

PWR: Long press **"PWR"** to turn on the meter or press it to turn off the meter. Display shows " " means the meter will turn off automatically after 15 minutes if no press action is taken. To disable auto power off function, when the meter is off, press and hold **"HOLD"** button then press **"PWR"** button to turn on the meter, the primary LCD shows as the right picture, now the sleep mode is disabled.

MAX/MIN: Press **MAX/MIN** to change operation mode from Max to Min circularly. The corresponding value will display on primary LCD. The corresponding value is calculated since powered on or reset.
SET: Long press SET to change Type K → J → T.

LCD DISPLAY

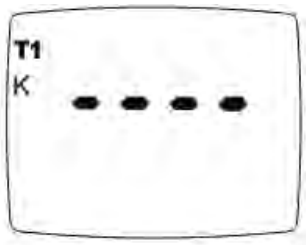
OPERATION

(1) POWER ON / OFF

Press **"PWR"** button to turn on the meter and the full screen of LCD will quick show on the display, the meter now is in normal measurement mode. While the meter is on, press **"PWR"** button to turn off the meter.
Note: Make sure you have plugged in the thermocouple probe before turning on.

(2) TAKING MEASUREMENT

Make sure you have plugged in K, J or T type sensor probe on the top of the meter, if the probe is not plugged in appropriately, LCD shows "_ _ _ _" on the display. Single input model shows only T1.



Long press **SET** button can change type K, J, T.

(3) CHANGE UNIT

Press **"UNIT"** button to change unit "℃" or "℉". The meter's default temperature unit is degrees C. After being set to degrees F the unit will revert to degrees C when powered off and back on.

(4) MAX/MIN

Press "MAX/MIN" to change operation mode from T1→MAX→MIN→T1 circularly.
Analysis value will calculate since power on or reset.

RESET MAX/MIN: Press **"MAX/MIN"** more than 2 sec. to reset MAX/MIN analysis value. The MAX/MIN value is updated to current reading.

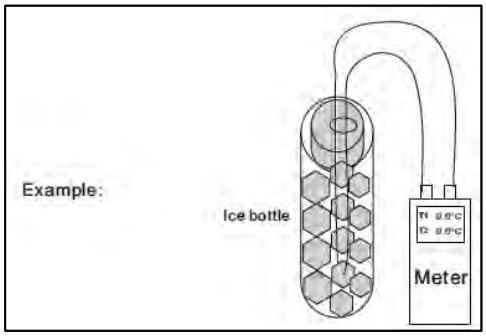
(5) DATA HOLD

Freeze display and update function enable or disable. Press **"HOLD"** to hold and release it to go back to the temperature reading.

NOTE: Remove batteries when not use.

(6) Ice point (0℃) calibration

1. Sensor part put in an ice bottle with full crushed ice.
2. Plug in K type probe for T1.
3. Press **PWR**+**HOLD**+**UNIT** buttons for few seconds, the meter will enter T1 K ice point calibration, 0.0℃ will flash on T1 reading.
4. After 1 minute calibration, the display will toggle to T1 J 0.0 calibration mode, plug in J type probe for T1, and then short press **SET** button, 0.0℃ will flash on T1 reading.
5. After 1 minute calibration, the display will toggle to T1 T 0.0 calibration mode, plug in T type probe for T1, and then short press **SET** button, 0.0℃ will flash on T1 reading.
6. After 1 minute calibration, the display will return to normal measurement mode without flashing reading.
7. The calibration completed.



TROUBLE SHOOTING

LCD display "_ _ _ _" means disconnect thermocouple.

WARNING

1. Always plug thermocouple sensor in before turning on the meter, or the displays on LCD are meaningless.
2. Make sure you plug sensor with correct polarity.

BATTERY REPLACEMENT

WARNING

If the symbol " " appears on the LCD, please replace the battery immediately

- Turn off the instrument.
- Remove the battery compartment.
- Change the battery.
- Replace the compartment cover.

Caution: this symbol indicates that equipment and its accessories shall be subject to a separate collection and correct disposal.

WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **25 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal two **(2) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

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CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTY / DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

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