JENCO®

VisionPlus

便携式温度计

说明书

MODEL 7810

7810

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概述

感谢您选购7810。 7810是一台测量温度的精密仪器，内建的微处理器可用来存储、校正和补偿所有有关K、J和T型的温度探棒。

本仪器拥有IP67等级的防水外壳，触摸式薄膜按键提供高可信任度，高触觉及声响告知等功能，使用4节7号（AAA）电池为电源，校正数据永久储存在内存中，下次开机时不需再次校正。

本仪器使用大型的LCD，可同时显示温度及时间，并且随着使用者的使用情况提供各种提示和类型指示。

7810具有50组测量数据的记忆功能，可以通过回叫界面轻松的查询所存储的测量数据。

另外，它还包含超长电池寿命以及50/60HZ交流噪声排除能力，此仪器适合在野外、工业和实验室。

产品检视

小心地打开包装，检视仪器及配件是否有因运输而损坏，如有发现，请立即通知 JENCO 的代理。

防水性

7810虽然具有防水外壳，但请不要在水下使用。此防水特性可避免仪器因为意外掉入非腐蚀性溶液中而造成的损坏。若仪器意外掉入非腐蚀性溶液中，请立即做以下步骤处理：

1. 用蒸馏水小心的清洗仪器，在清洗晾干后，须将连接器内的污物清理干净，否则会影响电极的连接。

2. 在重新使用之前，必须确定仪器及电极已经晾干。

3. 在完成以上两个步骤后，机器仍无法正常使用，请联系JENCO的代理商。（请参考“保证”章节）

安装电池

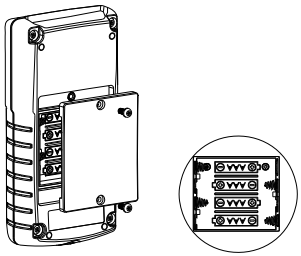
7810 使用4节7号（“AAA”）电池，以下是安装步骤：

1. 用螺丝刀旋开图中的两个螺丝，取下电池盖。（图一）

2. 取出旧电池并装上新电池，更换时，请注意电池极性放置要正确。

3. 放回电池盖，并确保锁紧两个电池盖螺丝。

［注意：按“On/Off ”键开机和关机。如果30分钟不对机器做任何操作，机器将自动关闭。］



图一：电池安装图

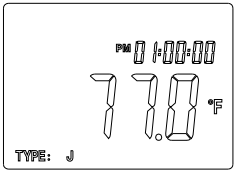
按键功能

	ON/OFF- 开关键。
	HODE- 在测量模式，按此键，锁定测量数值；再按此键一次，退回测量模式。 按住此键 10 秒，可切换自动关机功能。如果按此键 10 秒后，机器显示为“On”，机器自动关机功能将打开：30 分钟不对机器做任何操作，机器将自动关闭。如果按此键 10 秒后，机器显示为“Off”，机器自动关机功能将关闭，机器将不会自动关机。
	SET- 在测量模式，按此键进入设定模式。 在设定模式，按此键取消会改变使用者的操作项并回到测量模式。

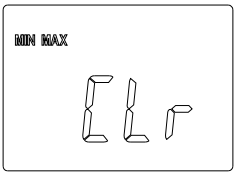
SAVE	**SAVE-** 在测量模式，按此键机器将存储带时间记录的温度值，最多可存储 50 组。 在设定模式，设定完所有参数，到“EXIT”显示闪烁界面时，按此键，此时机器才把所有的设置存储到机器里并回到测量模式。此键只在“EXIT”显示闪烁界面起效。
RECALL	**LEFT / RECALL-** 在测量模式，按此键机器将进入回叫模式。 在设定模式，按此键机器将的设定项将回到前一个设定项目。 在回叫模式，按此键将离开回叫模式回到测量模式。
CLEAR	**RIGHT / CLEAR-** 在测量模式，最大值模式，最小值模式，按此键将清除最大值和最小值。 在设定模式，按此键将选择下一个设定项目。
℃ ℉	**Up / ℃ / ℉-** 在测量模式，最大值模式，最小值模式，按此键键可切换温度的显示单位：℃和℉. 在设定模式，按此键，将会选择上一个选项闪烁的设置。在时间和日期的设置，按此键，递增日期和时间的数值。 在回叫模式，按此键，进入回叫模式，首先显示的是最后一个存储位置的温度值，按此键机器将显示第一个存储位置的温度值；再按此键，将显示下一个存储位置的温度值。
MAX MIN	**DOWN / MAX / MIX-** 在测量模式，按此键，机器将进入最大值模式。 在最大值模式，按此键，机器将从最大值模式进入最小值模式。 在最小值模式，按此键，机器将从最小值模式回到测量模式。 在设定模式，按此键，将会选择下一个选项闪烁的设置。在时间和日期的设置，按此键，递减日期和时间的数值。 在回叫模式，按此键，进入回叫模式，首先显示的是最后一个存储位置的温度值，按此键机器将显示第一个存储位置的温度值；再按此键，将显示下一个存储位置的温度值。

7810的模式

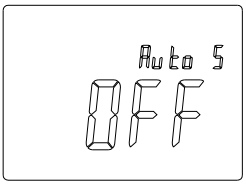
A. 测量模式

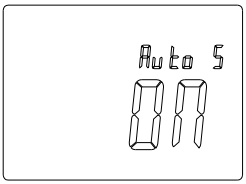


每次打开机器，机器都在测量模式。另外，当退出其他模式后，机器也将回到测量模式。只有在这个模式下，按[SAVE]键，机器才会存储温度、时间和日期的读值，一共可以存储 50 组。



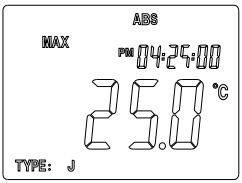
在这个模式下，用户可以清除最大值和最小值。当用户按下[RIGHT/CLEAR]键时，用户可以看到左侧的画面显示几秒。

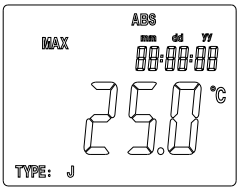




只有在测量模式下，用户可通过按住[HOLD]键 10 秒设定“打开”和“关闭”一个小时自动关机功能。

B. 最大值模式



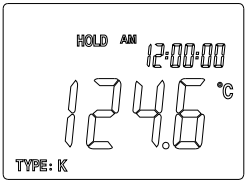


在这个模式下，机器将显示自用户清除所有测试数据到目前测试状态下所有温度数据中最大的温度值。在这个模式下，用户也可以清除最大值和最小值。清除界面将显示两秒，之后，整机显示另一个时间和日期的温度值最大值。

C. 最小值模式

在这个模式下，机器将显示自用户清除所有测试数据到目前测试状态下所有温度数据中最小的温度值。在这个模式下，用户也可以清除最大值和最小值。清除界面将显示两秒，之后，整机显示另一个时间和日期的温度值最小值。

D. 锁定模式

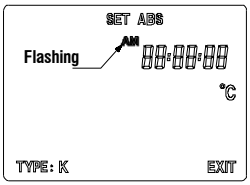


在这个模式，7810 将锁定温度读值，温度读值将不再随外界的温度变化而变化，直到机器回到测量模式。再按[HOLD]键一次，机器将退回测量模式。

E. 设定模式

在测量模式，按[SET]键，机器将进入设定模式。在此模式中，用户可以根据自己的需求更改 7810 以下的这些设置：

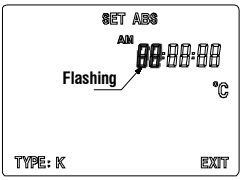
a. AM（上午）/PM（下午）



按上键或下键去更改闪烁的字体“AM（上午）”或“PM（下午）”.

按右键去移动设定位置到 Hour（小时）, Min（分钟）, Sec（秒）。按左键则移动位置到 EXIT（退出）。

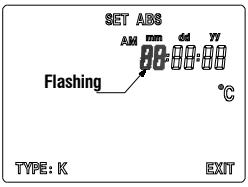
b. Hour（小时） / Min（分钟） / Sec（秒）



按上键或下键更改闪烁位上的数字或者按右键移动到下一个时间项的设置。在 Sec（秒）时间项之后，按右键将移至 Month (月)、 Day (日)和 Year (年)的时间项设置。

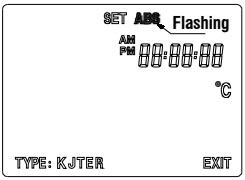
按左键将回至上一个设置选项。

c. Month（月）/ Day (日) / Year（年）



按上键或下键更改闪烁位上的数字或者按右键移动到下一个时间项的设置。在Year（年）设置项后，按[RIGHT]键将设置项移至ABS（绝对）/ REL（相对）的设置。

d. ABS TIME（绝对时间）/ REL TIME（相对时间）



按上键或下键更改ABS（绝对时间）/ REL（相对时间）。

如果客户选择了ABS（绝对时间），那整机将显示绝对时间的最大值/最小值的温度。

例如：客户在14:00的时候按了[RIGHT/CLEAR]键一次，温度读值最大值发生在14:15分，那整机最大值的时间将显示14:15:00，表示的是实际最大值发生时间。

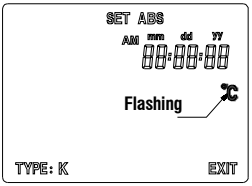
如果客户选择了 REL（相对时间），那整机将显示相对时间的最大值/最小值的温度。例如：客户在 14:00 的时候按了[RIGHT/CLEAR]键一次，温度读值最大值发生在 14:15:00,那整机最大值的时间将显示 00:00:15，表示的是距客户最后一次清除最大值后最大值再次产生的时间段。

设定模式 REL TIME（相对时间）项目使用特别注意：

（1） 使用 REL TIME（相对时间）项目必须关闭“1 小时自动关机功能”，否则 1 小时后，整机自动关机，无法读取实时监测的温度值。

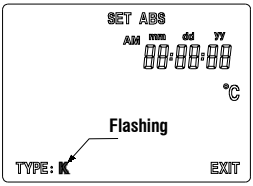
（2） 本仪器记录最大运行时间为 24 小时(23:59:59),这之后，机器将回到 0 小时（00:00:00）。如果你的测试时间超过 24 小时(1 天)的，REL TIME 时间加上 24 小时。例如：清除最小/最大值发生在 03:00:00AM，最后最小/最大数据记录发生在第二天的 04:00:00（超过 1 天），记录运行时间只将记录 01:00:00，因此实际发生的间隔时间，客户必须自行加 24 小时。

e. °C / °F



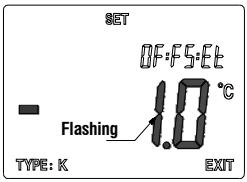
按上键或下键更改°C 或者°F 的温度单位。 这个设定将决定默认开机时显示温度的单位。

f. K型, J 型或 T 型



按上键或下键更改K, J或者T热电偶类型。按右键进入“OFFSET”项设置。按左键将回至上一个设置选项。

g. OFFSET（调整值）



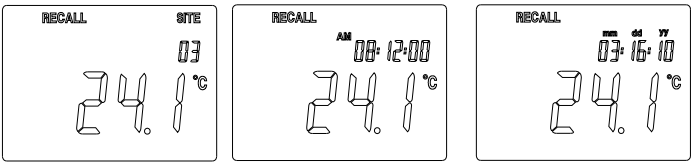
按上键或下键更改 OFFSET（调整值）：°C 单位的调整值调整范围是–10.0 ~ 10.0°C；°F 单位的调整值调整范围是–18.0 ~ 18.0°F。在测量模式，这个 OFFSET（调整值）将被叠加到实际测量温度值上显示一个经过调整的温度值显示。按右键进入“EXIT”项。

h. EXIT（退出）

进入“EXIT”项，“EXIT”会闪烁，此时按[SAVE] 键后，客户之前所有的更改都将被保存，整机退出设定模式回到测量模式。如果客户还需修改某些设定项，再按[SET] 键进入设定模式重新修改。按右键再次进入上午（AM）/下午（PM）设定项或者按左键回至上一个设置选项。

F. 回叫模式

在测量模式，按[LEFT/RECALL]键，整机将进入回叫模式。再按[LEFT/RECALL]键一次，整机将离开回叫模式进入测量模式。
进入回叫模式，整机首先显示的是最后一个存储数据，此数据将显示如下三个画面：



第一个画面表示的是第几个存储数据，第二个画面表示的是这个存储数据的存储时间，第三个画面表示的是存储数据的存储日期。在三个画面，这个存储温度值将一直显示。

错误显示及原因

主显示	次显示	模式	可能发生的原因 [纠正措施]
"**ovEr**" (OVER)		测量模式 MEASURE	a. 被测温度超过所选热电偶类型的温度测量范围。 b. 温度探棒接口接触不良。 [把温度探棒置于较低的温度中。] [检查温度探棒的接口。]
"**undr**" (UNDER)		测量模式 MEASURE	a. 被测温度低于所选热电偶类型的温度测量范围。 b. 温度探棒接口接触不良。 [把温度探棒置于较高的温度中。] [检查温度探棒的接口。]
"**ovEr**" (OVER)	"**MAX**"	最大值 MAX	整机测量过高于测量范围的温度值。 [清除最大值。]
"**undr**" (UNDER)	"**MIN**"	最小值 MIN	整机测量过低于测量范围的温度值。 [清除最小值。]
"**FUL**" (FULL)	"**SAVE**"	测量模式 MEASURE	存储数据超出 50 组。 [回到回叫模式清除所有存储数据。]
"**EPt**" (EMPTY)	"**RECALL**"	回叫模式 RECALL	在回叫模式，但没有存储数据显示。 [至少存储一个数据。]

[注意：如果机器仍然不能正常工作，请联系**Jenco**的服务部门。**]**

规格

类型	测量范围	分辨率	精确度
J,K,T	-328.0°F ~ 392.0°F -200.0°C ~ 200.0°C	0.1°F 0.1°C	±0.1%FS ±1.4°F ±0.1%FS ±0.7°C
J	393°F ~ 2010°F 201°C ~ 1099°C	1°F 1°C	±0.1%FS ±1.4°F ±0.1%FS ±0.7°C
K	393°F ~ 2500°F 201°C ~ 1371°C	1°F 1°C	±0.1%FS ±1.4°F ±0.1%FS ±0.7°C
T	393°F ~ 752°F 201°C ~ 400°C	1°F 1°C	±0.1%FS ±1.4°F ±0.1%FS ±0.7°C

冷点补偿	0.05°C / °C; 0,05°F / °F
环境温度: **工作环境温度** **额定精度环境温度**	 0.0°C ~ 50.0 °C 18.0°C ~ 28.0 °C
电源	4 节 7 号（“AAA”）电池
显示 (时间: 温度)	4.7mm:13.9mm 高LCD
相对湿度	90%以下
外壳	IP67 防水外壳
尺寸 (长x宽x高)	75mm x 157mm x 35mm
重量	230 g（包含电池）

质量保证

仪器保修一年（以购买日为准）。在保修期内如有质量问题，本公司将无偿代为修复；如有人为因素造成故障或损坏，本公司竭诚代为修复，但需酬收工本费（配件如电极头、标准液等消耗品不在保证范围内）。在将本机退回本公司时，请用包装材料妥为包好，以避免运输途中碰伤。无论何种情况，在退回本机前，请先与本公司联系，并得到本公司认可，方可退回本机。

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GENERAL INTRODUCTION

Thank you for selecting the 7810 meter. The 7810 is a precision tool that measure temperature. A built-in microprocessor stores, calculates and compensates for K, J and T type temperature probe.

This unit has a waterproof IP67 case. The touch mode keys are highly reliable with tactile and audio feedback. This meter uses four “AAA” batteries. The resetting of parameters are not required when power is restored.

The front of the meter has a large LCD that displays temperature and time/date simultaneously along with user prompts and type indicators.

The unit is also equipped with a non-volatile memory allowing the user to store 50 different sets of readings. This unit will assign a site number for each set of reading stored, so the user can review the data easily.

Other features include long battery life and 50/60Hz AC noise rejection. This meter is user-friendly for field, industrial and laboratory applications.

INITIAL INSPECTION

Carefully unpack the unit and accessories. Inspect for damages made in shipment. If any damage is found, notify your **Jenco** representative immediately. All packing materials should be saved until satisfactory operation is confirmed.

WATER PROOF

Though the 7810 meter is housed in a watertight case, **DO NOT** use it underwater. The watertight case prevents permanent damage to the unit if accidentally dropped into non-corrosive solutions. Follow these steps immediately if the unit is immersed in any solution:

4. Rinse unit carefully with distilled water. After rinsing and drying, inspect and clean connectors to remove all contaminants that may affect probe connections.

5. Wait for the unit and probe to dry completely before resuming operation.

6. If the unit does not function correctly after steps1 and 2, call JENCO for possible repair or replacement (see Warranty).

INSTALLING THE BATTERIES

The 7810 meter is packaged with 4 “AAA” alkaline batteries required for operation. To insert the batteries into the meter, follow the procedure outlined below.

4. Use a screw driver to remove the two screws and battery cover to expose the battery compartment. (Figure 1.)

5. Note the polarity and insert the batteries into the battery compartment correctly.

6. Replace the battery cover and make sure to secure the two screws for the water-tight feature.

[**Note:** Press the **[ON/OFF]** key to turn the unit on. If the unit is running then you can press the **[ON/OFF]** key to turn the unit off. The unit will automatically turn off after 30 minutes of no key activity.]

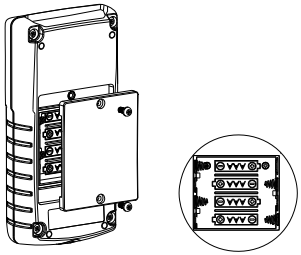


Figure 1: Battery compartment

KEYS FUNCTION

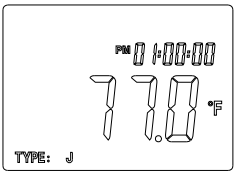
⏻	**ON/OFF-** Powers on and shuts off the meter.
HOLD	**HOLD-** In the **MEASURE mode**, press this key to freeze the temperature display. Press this key and hold for 10 seconds to turn on or turn off the one hour-auto shutdown feature. In the **HOLD mode**, press this key to unlock the temperature display.

SET	**SET-** In the **MEASURE mode**, press this key to enter the **SETTING mode**. In the **SETTING mode**, press this key to cancel any changes made and return to the **MEASURE mode**.
SAVE	**SAVE-** In the **MEASURE mode**, press this key to save the temperature reading, date and time in the next available slot of the 50-slot memory. In the **SETTING mode**, press this in the "**EXIT**" option to save all the changes the user made and return to the **MEASURE mode**. This key will only work in the "**EXIT**" option.
RECALL	**LEFT / RECALL-** In the **MEASURE mode**, press this key to change the mode to **RECALL mode**. In the **SETTING mode**, press this key to move back to the previous setting. In the **RECALL mode**, press this key to exit the **RECALL mode** and return to the **MEASURE mode**.
CLEAR	**RIGHT / CLEAR-** In the **MEASURE mode**, **MAX mode**, **MIN mode**, press this key to clear the max and mix values. In the **SETTING mode**, press this key to select the next setting. In the **RECALL mode**, press this key for 2 seconds to clear all data saved.
°C °F	**Up / °C / °F-** In the **MEASURE mode**, **MAX mode**, **MIN mode**, press this key to display the temperature reading in either °C or °F**.** In the **SETTING mode**, press this key to select the next option of the flashing setting. In the time and date setting, it will advance the date or time. In the **RECALL mode**, press this key to display the next available data storage site.

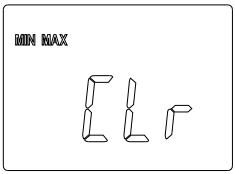
MAX / MIN	**DOWN / MAX / MIN-** In the **MEASURE mode**, press this key to change the mode to **MAX mode**. In the **MAX mode**, press this key to change the mode to **MIN mode**. In the **MIN mode**, press this key to change the mode to **MEASURE mode**. In the **SETTING mode**, press this key to go back to the previous selection option. In the time and date settings, it will advance the value of the date or time. In the **RECALL mode**, press this key to display the last data storage site.

MODEL 7810 MODES

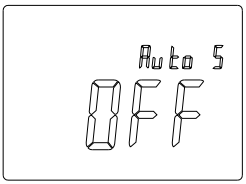
A. MEASURE mode

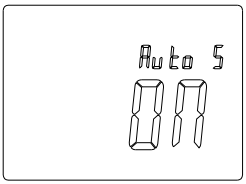


When user powers on the model 7810, the **MEASURE mode** screen will appear. The instrument will return to this mode once you exit from other modes. Only in the **MEASURE mode**, the user can press the **[SAVE]** key to save the temperature reading, time and date into the next available slot of the 50-slot memory.



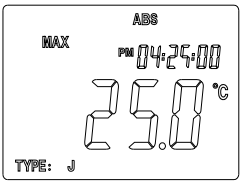
The user can clear the MIN and MAX values while in the **MEASURE mode**. The instrument will display the screen on the left for a few seconds when the user presses the **[CLEAR]** key.

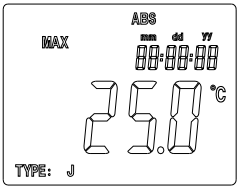




The user can turn on or turn off the one hour-auto shutdown feature only in the **MEASURE mode**. Press the **[HOLD]** key and hold for 10 seconds to toggle the setting of the one hour-auto shutdown feature.

B. MAX mode



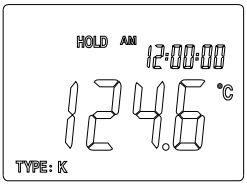


Press the **[MAX/MIN]** key in **MEASURE mode** to enter the **MAX** mode, the model 7810 will display the maximum temperature reading it has captured since the last time the instrument has been cleared. The instrument will display 2 screens, one with time and the other with date. The user can press the **[CLEAR]** key to clear the MAX and MIN values while in this mode.

C. MIN mode

Press the **[MAX/MIN]** key in **MEASURE mode** to enter the **MIN mode**, the model 7810 will display the minimum temperature reading it has captured since the last time the instrument has been cleared. The instrument will display 2 screens, one with time and the other with date. The user can press the **[CLEAR]** key to clear the MAX and MIN values while in this mode.

D. HOLD mode



Press the **[HOLD]** key in **MEASURE mode** to enter the **HOLD mode**, the model 7810 will freeze the temperature reading. The time will still be updated on screen but the temperature reading will NOT be updated until you return to the **MEASURE mode**.

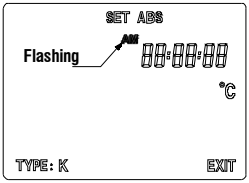
Press the **[HOLD]** key again to return to the **MEASURE mode**.

E. SETTING mode

Press the **[SET]** key in **MEASURE mode** to enter the **SETTING mode**.

In this mode the user can change the following model 7810 settings:

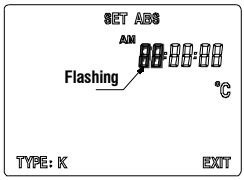
a. AM / PM



Press the **[UP]** or **[DOWN]** key to change to PM or AM.

Press the **[RIGHT]** key to move to **Hour, Min, Sec** setting. Press the **[LEFT]** key to move to the EXIT option.

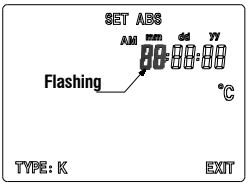
b. Hour / Min / Sec



Press the **[UP]** or **[DOWN]** key to change the flashing value or press the **[RIGHT]** key to move to the next time setting. After the Sec setting, press the **[RIGHT]** key to move to **Month, Day, Year** setting.

Press the **[LEFT]** key to move back to the previous option.

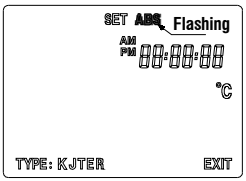
c. Month / Day / Year



Press the **[UP]** or **[DOWN]** key to change the flashing value or press the **[RIGHT]** key to move to the next date setting.

After the Year setting, press the **[RIGHT]** key to move to **ABS/REL** setting. Press the **[LEFT]** key to move back to the previous option.

d. ABS / REL



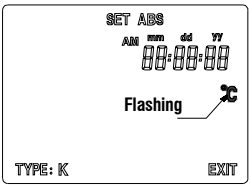
Press the **[UP]** or **[DOWN]** key to change to ABS or REL value settings. If the user chooses **ABS**, the **MAX** and **MIN mode** will display the actual time the MAX and MIN temperature occurred.

If the user chooses **REL**, the **MAX** and **MIN mode** will display the ELASPED TIME from time the user cleared the last MAX and MIN values to the time the new MAX and MIN values occurred. Press the **[RIGHT]** key to move to the next setting.

SPECIAL NOTE WHEN SETTING IN REL TIME

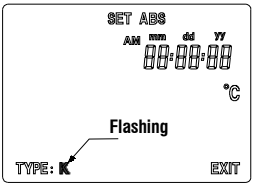
The Instrument will auto shutdown after 1 hour of no key activity unless the user turns off the auto shutdown feature (see **[HOLD]** key function). The maximum elapsed time the instrument can record is about 24 hours “23:59:59” after which it will start back to “00:00:00”. If the user turns on the instrument after shutting down for a long period of time, the instrument will still compute the elapsed time from the last **[CLEAR]** key function the user performed.
Example: If the user clears the min/max at 03:00:00AM and the last max recorded occurred at 04:00:00AM the next day (after more than 1 day) the recorded elapsed time will be 01:00:00.

e. °C / °F



Press the **[UP]** or **[DOWN]** key to change to °C or °F. This will set the default turn-on temperature unit.

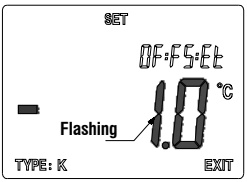
f. TYPE K, J or T



Press the **[UP]** or **[DOWN]** key to select K, J or T type thermocouple. Press the **[RIGHT]** key to move to the OFFSET option.

Press the **[LEFT]** key to move back to the previous option.

g. OFFSET



Press the **[UP]** or **[DOWN]** key to change the value from –10.0 to 10.0 if the unit is in °C or –18.0 to 18.0 if unit is in °F. The value here will be added to the temperature display in the **MEASURE mode.**

Press the **[RIGHT]** key to move to the EXIT option.

h. EXIT

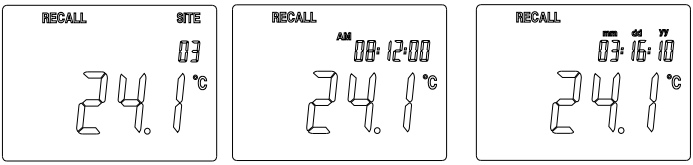
Press the **[SAVE]** key to save all the changes data the user **HOLD** made in the **SETTING mode.** (***IMPORTANT:*** The user must press the **[SAVE]** key in order to save all setting changes in the "**EXIT**" interface.)

If the user wants to cancel all the changes data just press the **[SET]** key anywhere in **SETTING mode.** After saving, the unit will return to **MEASURE mode**.

F. RECALL mode

Press the **[LEFT/RECALL]** key in the **MEASURE mode** to switch to the **RECALL mode**. Press the **[LEFT/RECALL]** key again to exit the **RECALL mode** and return to the **MEASURE mode**.

When the instrument switches to the **RECALL mode**, it will first display the last data saved by the user. Three screens will be displayed for every site data site.



The first screen will display the site number, the 2nd screen will display time and the 3rd screen will display the date. The temperature reading saved is always displayed in all screens.

In the **RECALL mode**, press this key for 2 seconds to clear all data saved

ERROR DISPLAYS AND TROUBLESHOOTING

LCD display	Additional LCD message	Mode	Possible cause(s) [Action(s)]
"**ovEr**" (OVER)		MEASURE	a. Temperature measured > the instrument's range for the thermocouple type sensor used. b. Probe not properly connected. [Change sensor with proper temperature range.] [Check probe connection.]
"**undr**" (UNDER)		MEASURE	a. Temperature measured < the instrument's range for the thermocouple type sensor used. b. Probe not properly connected. [Change sensor with proper temperature range.] [Check probe connection.]
"**ovEr**" (OVER)	"**MAX**"	MAX	Unit recorded an over temperature reading before. [Clear the MAX values]
"**undr**" (UNDER)	"**MIN**"	MIN	Unit recorded an under temperature reading before. [Clear the MIN values]
"**FUL**" (FULL)	"**SAVE**"	MEASURE	User tries to save data but the 50 sites are full. [Go to the RECALL mode and erase all data]
"**EPt**" (EMPTY)	"**RECALL**"	RECALL	User tried to go to the RECALL mode but no data has been saved. [Save at least 1 set of data]

[Note: If the meter still does not perform normally after the above measures are taken, call **Jenco** Service Department.**]**

SPECIFICATIONS

Type	Range	Resolution	Accuracy
J,K,T	-328.0°F to 392.0°F -200.0°C to 200.0°C	0.1°F 0.1°C	±0.1%FS ±1.4°F ±0.1%FS ±0.7°C
J	393°F to 2010°F 201°C to 1099°C	1°F 1°C	±0.1%FS ±1.4°F ±0.1%FS ±0.7°C
K	393°F to 2500°F 201°C to 1371°C	1°F 1°C	±0.1%FS ±1.4°F ±0.1%FS ±0.7°C
T	393°F to 752°F 201°C to 400°C	1°F 1°C	±0.1%FS ±1.4°F ±0.1%FS ±0.7°C

Clod Junction Compensation Error	0.05°C / °C; 0,05°F / °F
Ambient Temperature: **Measurement Range** **Rated Accuracy**	 0.0°C to 50.0 °C 18.0°C to 28.0 °C
Power	Four “AAA” Batteries
Display (Time : Temperature)	4.7mm : 13.9mm high LCD
Relative Humidity	up to 90%
Case	IP67 water-tight case
Dimensions (W x D x H)	75mm x 157mm x 35mm
Weight	230 grams (Batteries included)

WARRANTY

Jenco warrants this product to be free from significant deviations in material and workmanship for a period of 1 year from date of purchase. If repair or adjustment is necessary and has not been the result of abuse or misuse, within the year period, please return-freight-prepaid and the correction of the defect will be made free of charge. If you purchased the item from our **Jenco** distributors and it is under warranty, please contact them to notify us of the situation. **Jenco** Service Department alone will determine if the product problem is due to deviations or customer misuse.

Out-of-warranty products will be repaired on a charge basis.

RETURN OF ITEMS

Authorization must be obtained from one of our representatives before returning items for any reason. When applying for authorization, have the model and serial number handy, including data regarding the reason for return. For your protection, items must be carefully packed to prevent damage in shipment and insured against possible damage or loss. **Jenco** will not be responsible for damage resulting from careless or insufficient packing. A fee will be charged on all authorized returns.

NOTE: Jenco reserves the right to make improvements in design, construction and appearance of our products without notice.

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