SENCOR

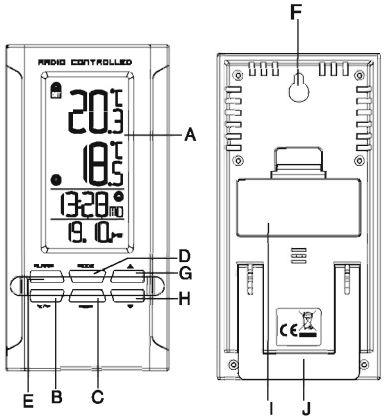
CABLE FREE IN-OUT THERMOMETER AND RADIO CONTROLLED CLOCK

SWS 120

USER'S MANUAL

1. INTRODUCTION

The basic package comes with a main unit, which is the weather forecast station and, a remote unit, the thermo sensor. The main unit is capable of keeping track of the maximum and minimum temperature of different sites. And no wire installation is required and operates at 433MHz.



A DISPLAY
Facilitates easy reading of remote and indoors temperatures and calendar clock

B °C/°F BUTTON
Toggle for setting temperature display unit °C or °F

C MEMORY [MEN] BUTTON
Recalls the maximum or minimum temperature of main and remote unit

D MODE BUTTON
Toggles the display modes and confirms entry while setting the values for display

E ALARM BUTTON
Displays the alarm time or sets the alarm status

F WALL-MOUNT RECESSED HOLE
For mounting the main unit on a wall

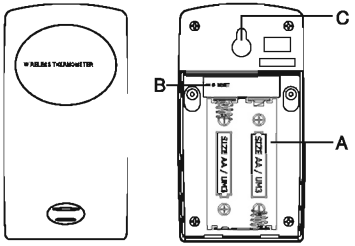
G UP (▲) BUTTON
Advances the value of a setting

H DOWN (▼) BUTTON
Decreases the value of a setting

I BATTERY COMPARTMENTS
Accommodates two UM-4 or „AAA" size 1.5V batteries

J TABLE STAND
For standing the main unit on a flat surface

MAIN FEATURES: REMOTE UNIT



A BATTERY COMPARTMENT
Accommodates two A A-size batteries

B RESET BUTTON
Press to reset all setting

C WALL-MOUNT RECESSED HOLE
Supports the remote until in wall-mounting

GETTING STARTED

2a) BEFORE YOU BEGIN

For best operation,

1. Insert batteries for remote units before doing so for the main unit.
2. Position the remote unit and main unit within effective transmission range, which, in usual circumstances, is 20 to 30 meters.
   Note that the effective range is vastly affected by the building materials and where the main and remote units are positioned.
   Try various set-ups for best result.
   Though the remote units are weather proof, they should be placed away from direct sunlight, rain or snow.

2b) BATTERY INSTALLATION: REMOTE UNIT

1. Remove the screws on the battery compartment.
2. Install 2 batteries (UM-3 or „AA" size 1.5V) strictly according to the polarities shown.
3. Replace the battery compartment door and secure its screws.

2c) BATTERY INSTALLATION: MAIN UNIT

1. Open the battery compartment door.
2. Install 2 batteries (UM-4 or „AAA" size 1.5V) strictly according to the polarities shown.
3. Replace the battery compartment door.

2d) LOW BATTERY WARNING: REMOTE UNIT

When it is time to replace batteries, the respective low-battery indicator [🔋] next to the outdoor temperature will be shown on the main unit's display.

2e) LOW BATTERY WARNING: MAIN UNIT

When it is time to replace batteries, the respective low-battery indicator [🔋] next to the time with seconds will be shown on the main unit's display.

2f) HOW TO USE THE TABLE STAND OR WALL MOUNTING

The main unit has a table stand, which when connected, can support the unit on a flat surface. Or you can mount the unit on a wall using the recessed screw hole.

2g) GETTING STARTED

Once batteries are in place for the remote unit, they will start transmitting temperature readings at around 45 seconds intervals. The main unit will also start searching for signals for about two minutes once batteries are installed. Upon successful reception, the outdoors temperatures will be displayed.
The main unit will automatically update its readings at about 45-second intervals.
If no signals are received, blanks „ ‾‾.-“ will be displayed.
Hold [▼] for 2 seconds to enforce another search for about 2 minutes. This is useful in synchronizing the transmission and reception of the remote and main units.
Repeat this step whenever you find discrepancies between the reading shown on the main unit and that on the remote unit.

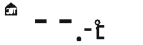
3. THERMOMETER

3a) HOW TO CHECK REMOTE AND INDOOR TEMPERATURES

The wave display on the outdoors temperature indicates the reception of the remote unit is in good order.
If no readings are received from the remote unit for more than two minutes, blanks „ ˝˝.-“ will be displayed until further readings are successfully searched. Check the remote unit is sound and secure. You can wait for a little while or Hold [▼] for 2 seconds to enforce an immediate search. If the temperature goes above or below than the temperature measuring range of the main unit or the remote unit (stated in specification), the display will show „ ˝˝.-“.

3b) HOW TO READ THE KINETIC WAVE DISPLAY

The kinetic wave display shows the signal receiving status of the main unit. There are three possible forms:

The unit is in searching mode.	
Temperature readings are securely registered.	
No signals.	

3c) MAXIMUM AND MINIMUM TEMPERATURES

The maximum and minimum recorded indoor temperature, outdoor temperatures will be automatically stored in memory.
To display them, Press [**MEM**] once to display the maximum readings and again the minimum readings.
The respective indicators, [**MAX**] or [**MIN**] will be displayed.
To clear the memory, hold down [**MEM**] for two seconds.
The maximum and minimum readings will be erased.
If you press [**MEM**] now, the maximum and minimum readings will have the same values as the current ones until different readings are recorded.

3d) DISCONNECTED SIGNALS

If without obvious reasons the display of the outdoor temperature goes blank, Hold [▼] for 2 seconds to enforce an immediate search. If that fails, check:

1. The remote unit is still in place.
2. The batteries of both the remote unit and main unit. Replace as necessary.

Note: When the temperature falls below freezing point, the batteries of outdoor units will freeze, lowering their voltage supply and the effective range.

3. The transmission is within range and path is clear of obstacles and interference. Shorten the distance when necessary.

3e) TRANSMISSION COLLISION

Signals from other household devices, such as door bells, home security systems and entry controls, may interfere with those of this product and cause temporarily reception failure. This is normal and does not affect the general performance of the product. The transmission and reception of temperature readings will resume once the interference recedes.

4. RADIO CONTROLLED CLOCK DCF77

4a) HOW TO SET THE RADIO CONTROLLED CLOCK

* After the batteries are installed. The clock will automatically search the radio signal. It takes about 3-5 minutes to finish this process.
* If the radio signal is received, the date & time will be set automatically with radio control signal icon [ ] turns on.
* If the clock fails to receive the time signal, it will be with the [ ] icon turns off. Then user can set the time manually.
* Radio-controlled signal will be scheduled to receive every hour.

- Receiving	- Strong	- No singal	No symbol - signal receptiion disabled

Note: To automaticall search for a DCF signal, hold down the (▲) button for 3 seconds until the DCF signal reception icon starts to flash.

4b) HOW TO SET THE CLOCK MANUALLY

To set the clock manually, hold MODE for two seconds it will show the year. Use [▼] or [▲] to change it.
Press **MODE** to confirm. Repeat the same procedure to set the month, date, date-month format, 12/24, hour, minute, display language, zone time offset and °C/°F.
During the setting, press and hold [▼] or [▲] will increase or decrease the value rapidly.
For display language, you can choose among English (EN), German (DE), French (FR), Italian (IT), Spanish (SP), Dutch (DU) and Swedish (SW) - in that order.
If there is an item you do not wish to change, simply press [**MODE**] to bypass the item.
When you finished the change, press [**MODE**] to exit.
The display will return to the clock mode.

4c) CALENDAR CLOCK DISPLAY MODES

The time is displayed in hour-minute format.
The calendar is displayed in a day-month format.
Each press on the **MODE** button will change the display between clock with second, clock with day of week, zone time with day of week, and zone time with second.

4d) HOW TO SET THE ZONE TIME

To set the zone time,

1. Press **[MODE]** until at zone time display mode,
2. Hold **[MODE]** for two seconds, the zone time offset will be displayed.
3. Enter the offset using [▼] or [▲].
4. Press **[MODE]** to exit.

The alarm „(«**W**“ „(«**S**“ icons will be displayed indicating which alarm is armed. You can also arm or disarm an alarm by pressing the **[▲]**, **[▼]** button at alarm display mode.
Press **MODE** to return to clock display mode.

5. BELL/ALARM

5a) HOW TO SET AND ARM THE ALARM

To set an alarm,

1. Press [**ALARM**] once to display alarm time. If the alarm is disarmed, the time will be displayed as „OFF„.
2. Hold [**ALARM**] for two seconds. The hour digits will blink.
3. Enter the hour using [▼] or [▲].
4. Press [**ALARM**]. The minute digits will blink.
5. Enter the minutes using [▼] or [▲].
6. Press [**ALARM**] to exit.
7. Repeat the same procedure to set single alarm.

5b) ALARM FEATURE

* Weekday Alarm
  The alarm sound will be activated and the icon will be flashed on weekday when it is armed and the alarm time is reach.
* Single Alarm
  The alarm sound will be activated and the icon will be flashed once when it is armed and the alarm time is reach. Once it finished, it will be disabled automatically.

5c) HOW TO STOP AN ALARM

Press [**ALARM**] on the unit to stop an alarm.

6. SPECIFICATIONS

Temperature Measurement

Main unit

Indoor Temperature measurement	
Proposed operating range	: -5.0°C to +50.0°C 23.0°F to 122.0°F
Temperature resolution	: 0.1 °C 0.2°F

Remote unit

Proposed operating range	: -10.0°C to +60.0°C 14.0°F to+140.0°F
Temperature resolution	: 0.1 °C 0.2°F
RF Transmission Frequency	: 433 MHz
RF Transmission Range	: Maximum 30 meters (open area)
Temperature sensing cycle	: around 43~47 seconds

Power

Main unit	: use 2 pcs UM-4 or „AAA“ 1.5V battery
Remote sensing unit	: use 2 pcs UM-3 or „AA“ 1.5V battery

PRECAUTIONS

This product is engineered to give you years of satisfactory service if you handle it carefully. Here are a few precautions:

1. Do not immerse the unit in water.
2. Do not clean the unit with abrasive or corrosive materials. They may scratch the plastic parts and corrode the electronic circuit.
3. Do not subject the unit to excessive force, shock, dust, temperature or humidity, which may result in malfunction, shorter electronic life span, damaged battery and distorted parts.
4. Do not tamper with the unit's internal components. Doing so will invalidate the warranty on the unit and may cause unnecessary damage. The unit contains no user-serviceable parts.
5. Only use fresh batteries as specified in the user's manual. Do not mix new and old batteries as the old ones may leak.
6. Always read the user's manual thoroughly before operating the unit.

CAUTION

- The content of this manual is subject to change without further notice.
- Due to printing limitation, the displays shown in this manual may differ from the actual display.
- The contents of this manual may not be reproduced without the permission of the manufacturer.

INSTRUCTIONS AND INFORMATION REGARDING THE DISPOSAL OF USED PACKAGING MATERIALS

Dispose of packaging material at a public waste disposal site.

DISPOSAL OF USED ELECTRICAL AND ELECTRONIC APPLIANCES

The meaning of the symbol on the product, its accessory or packaging indicates that this product shall not be treated as household waste. Please, dispose of this product at your applicable collection point for the recycling of electrical & electronic equipment waste. Alternatively in some states of the European Union or other European states you may return your products to your local retailer when buying an equivalent new product. The correct disposal of this product will help save valuable natural resources and help in preventing the potential negative impact on the environment and human health, which could be caused as a result of improper liquidation of waste. Please ask your local authorities or the nearest waste collection centre for further details. The improper disposal of this type of waste may fall subject to national regulations for fines.

For business entities in the European Union

If you wish to dispose of an electrical or electronic device, request the necessary information from your seller or supplier.

Disposal in other countries outside the European Union

If you wish to dispose of this product, request the necessary information about the correct disposal method from local government departments or from your seller.

CE This product meets all the basic EU regulation requirements that relate to it.

Changes to the text, design and technical specifications may occur without prior notice and we reserve the right to make these changes.

Hereby FAST ČR a.s., declares that this SWS 120 is in compliance with the essential requirements and other relevants provisions of Directive 1995/5/EC. The device can be operated freely in the EU.

The full text of the Declaration of Compliance can be found at www.sencor.cz.