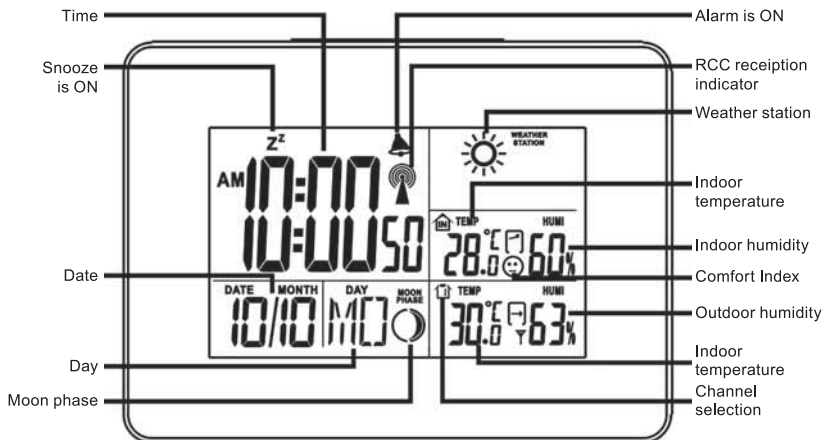# SENCOR®

SWS 51

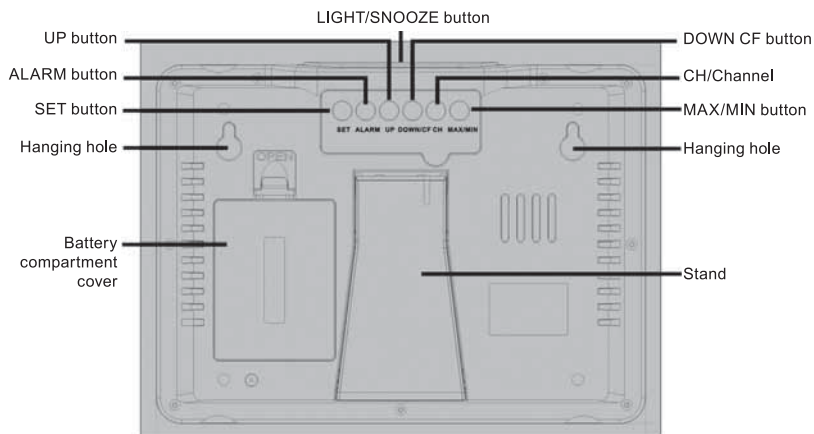**INSTRUCTION MANUAL**

WEATHER FORECAST STATION

EN

Thank you for your decision to purchase this device. Please, read the entire user's manual before first using the device – it contains important about the optimal and safe use of all of its functions and features. Keep the user's manual in case of future need.
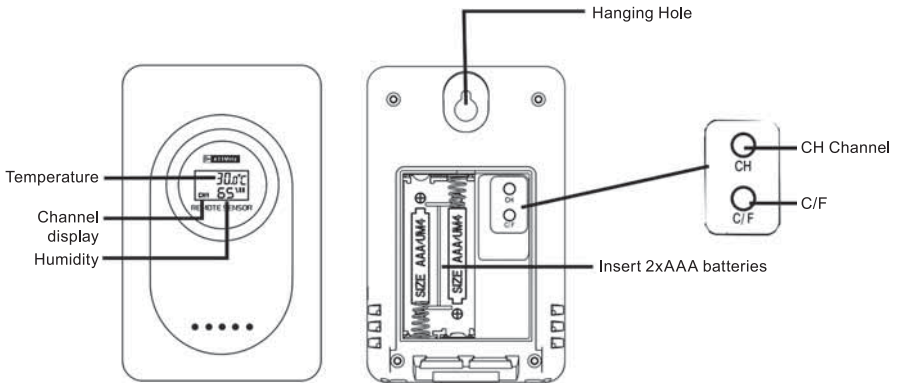
DESCRIPTION OF THE DEVICE

FRONT VIEW

Time
Snooze is ON
Date
Day
Moon phase

Alarm is ON
RCC reception indicator
Weather station
Indoor temperature
Indoor humidity
Comfort Index
Outdoor humidity
Indoor temperature
Channel selection

REAR VIEW

UP button
ALARM button
SET button
Hanging hole
Battery compartment cover

LIGHT/SNOOZE button

DOWN CF button
CH/Channel
MAX/MIN button
Hanging hole
Stand

The device consists of the main unit with a radio controlled clock and one outdoor temperature and humidity measuring unit equipped with a temperature and humidity sensor. The measured tempeature is wirelessly transmitted to the main unit and dsiplayed on its display. One main unit can connect with max 3 different sensors. A replacement sensor can be ordered under the part number SWS THS.

The main unit is powered by 3XAA batteries, the external temperature and humidity sensor is powered by 2X AAA batteries.

EFFECT OF THE ENVIRONMENT ON SIGNAL RECEPTION OF THE TIME STANDARD-DCF77

The clock is controlled by the received signals of the time standard. These signals are affected (but not limited) by the following factors:

- distance between the transmitter and the receiver,
- vicinity of valleys or mountains,
- vicinity of power poles and high voltage power lines,
- vicinity of a highway, railway, airport, etc,
- vicinity of a large construction site, reinforced concrete buildings, etc,
- vicinity of electrical appliances, particularly televisions, miscrowave ovens, high performance loudspeakers,etc. devices,
- vicinity of moving motor vehicles,
- vicinity of metal structures and a range of other object, facotrs and circumstances not indicated in this short overview.

Locate the main unit in a location where a strong signal of the time stardard can be expected(eg: near a window) as far away as posible from large metal buildings, structures and electrical devices, which are or under certain conditions may be the source of interference for the reception of the time stardard signal.

For those in a hurry

1. Slide the cover on the rear side of the device's case to open the battery compartment cover and place 3XAA batteries into the battery compartment according to correct polarity – it is marked inside the battery compartment.
2. Open the transmitter battery cover, and insert 2 AAA batteries into the battery compartment according to correct polarity – it is marked inside the battery compartment. Immediatedly therefafter data will be transmitted from the sensor to the main unit. For the purpose of performing the tasks descripbed in this step, it is appropriate for the main unit and the external sensor to be located to each other – eg, on a table.

3. After the main unit receives all the data(Information about the temperature in the installation location of the external sensor)the main unt will start searching for the time standard signal(transmitted by the DCF transmitter located in Germany).

Reception of the signal from the DCF transmitter is indicated on the display of the main unit by the appropriate icons.

The time standard signal is being received	The 📶 icon is flashing
After sucessful reception	The 📶 icon is flashing
Unsuccessful reception	The icon is not display

Additional information

Pressing DOWN/CF button on the device in the operating mode will display information about the reception mode and signal strength from the DCF transmitter on the display of the main unit. The signal strength of the DCF transmitter is indicated on the display by one (weak) to three bars (strongest) – during standard use of the device thre are two top three bars (signal strength fluctuates) shown on the display.

Automatic and manual reception of the time standard

● Time of automatic RCC signal receiving: 2:00 a.m., 3:00 a.m., 4:00 a.m. and 5:00 a.m. If the reception is successful, it will not enter the receiving again that day. RCC receiving time is 7 minutes.
● To start manual reception of the stardard, hold DOWN/CF button. Press the button again to end the reception of the stardard.
● During the time when the time standard signal is being received by the device, other buttons on the main unit are disabled.
● The value of the measured outdoor temperature will stabilise after approx 30 minutes of the operation of the external sensor.

Effective range of the external sensor

The maximum effective range of the outdoor sensor is up to approx.30 meters and is affected by obstacles found in the area between the sensor and the main unit, in particular walls, ceillings, doors, windows, etc.

Installation location of the sensor

● The cover of the external sensor is not waterproof. If the sensor is located outdoors then it must be located in a covered area so that it is not directly rained or snowed on.
● Never place the sensor on metal surfaces or objects or place inside metal covers.
If possible, locate the sensor on the northern side of the house so that the temperature reading is not skewed by the effect of sunlight.

SETTING THE CLOCK

1. Hold "SET" key for 2 seconds to enter into time setting.
2. The sequence of time setting: Time Zone → Hour → Minute → Year → Month → Date → Language.
3. There will have 1Hz flashing during setting.
4. Press "SET" to confirm the setting, and enter the next setting state.

5. Press "UP" one time, the setting will go ahead for one step; hold the key for 2 seconds, it will run forward by 8 steps/second.
6. Press "DOWN/CF" one time, the setting will backward for one step; hold for 2 seconds, it will run back by 8 steps/second.
7. Moon phase is changed accordingly the changing of month and date.
8. The system will exit automatically if no key is operated in 8 seconds.

Addition:

Multi Language Day
display language

	ENGLISH	GERMAN	FRENCH	SPANISH	ITALIAN	NETHERLANDS	DENMARK
	EN	GE	FR	ES	IT	NE	DR
SUNDAY	SU (SU)	SO (SO)	DI (DI)	DO (DO)	DO (DO)	ZO (ZO)	SO (SO)
MONDAY	MO (MO)	MO (MO)	LU (LU)	LU (LU)	LU (LU)	MA (MA)	MA (MA)
TUESDAY	TU (TU)	DI (DI)	MA (MA)	MA (MA)	MA (MA)	DI (DI)	TI (TD)
WEDNESDAY	WE (WE)	MI (MI)	ME (ME)	MI (MI)	ME (ME)	WO (WO)	ON (ON)
THURSDAY	TH (TH)	DO (DO)	JE (JE)	JU (JU)	GI (GI)	DO (DO)	TO (TD)
FRIDAY	FR (FR)	FR (FR)	VE (VE)	VI (VI)	VE (VE)	VR (VR)	FR (FR)
SATURDAY	SA (SA)	SA (SA)	SA (SA)	SA (SA)	SA (SA)	ZA (ZA)	LO (LO)

ALARM SETTING

1. Hold "ALARM" key for 2 second to enter into alarm setting.
2. The sequence of alarm setting: Hour → Minute → Exit.
3. There will have 1Hz flashing during setting.
4. Press "ALARM" to confirm the setting, and enter the next setting state.
5. Press "UP" one time, the setting will go ahead for one step; hold the keys for 2 seconds, it will run forward by 8 steps/seconds.
6. Press "DOWN/CF" one time, the setting will backward for one step; hold for 2 seconds, it will run back by 8 steps/second.
7. The system will exit automatically if no key is operated in 8 seconds.
8. When ringing, click SNOOZE/LIGHT button to enter into 5 minutes snooze states, exit if no other key is clicked.

Remark:
The BUZZER will ring for 2 seconds as below:
a) 0 – 10 sec.: one "beep" per second,
b) 10 – 20 sec.: two "beep" per second,
c) 20 – 30 sec.: four "beep" per second,
d) After 30 sec.: "beep" continuously.

WEATHER FORECAST

The device is equipped with a weather forecast fuction by which the main weather indicators are graphically shown on the display; they are valid for a limited time for the installation location of the device.

Weather forecast icon	Type of forecast weather
	Sunny
	Cloudy
	Cloudy
	Rainy

COMFORT INDEX

This device is equipped with comfort index function y which comfort levels are graphically shown on the display.

Comfort level	Icon display	Temperature range	Humidity range
DRY		−5 °C to +50 °C	under 40 %
COMFORT		+20 °C to +28 °C	40 % to 70 %
WET		−5 °C to +50 °C	Over 70 %
NO INDICATION	–	Less than 20 °C or more than 28 °C	Less than 40 % or more than 70 %

TREND INDICATOR INDOOR/ OUTDOOR

The device is equipped with indoor/outdoor temperature and humidity trend indicator.

| raising | steady | falling |

Additional information:

- The temperature trend indicator is based on the difference between a recorded temperature and the current temperature. When the current temperature is at least 1°C higher than the recorded, the arrow will point up and the current temperature becomes the recorded.
- If the temperature is at least 1°C lower than the recorded value, the arrow will point down and the current temperature becomes the recorded. In all other cases, the arrow will be flat.
- The humidity trend indicator is based on the difference between a recorded humidity and the current humidity. When the current humidity is at least 3% higher than the recorded, the arrow will point up and the current humidity becomes the recorded.
- If the humidity is at least 3% lower than the recorded value, the arrow will point down and the current humidity becomes the recorded. In all other cases, the arrow will be flat.
- The pressure trend indicator is based on the difference between a recorded pressure and the current pressure. When the current pressure is at least 2mb higher than the recorded, the arrow will point up and the current pressure becomes the recorded.
- If the pressure is at least 2mb lower than the recorded value, the arrow will point down and the current pressure becomes the recorded. In all other cases, the arrow will be flat.

INSTRUCTION FOR HANDLING THE DEVICE

The device is a precision prduct taking advantage of the latest knowledge in the field and requires corresponding handling.

- Protect the device against impacts and being dropped.
- Do not use force when handling the device.
- Protect the device against extreme temperature, direct sunlight.
- Do not disassemble the device; do not perform any repairs on the device.

TECHNICAL SPECIFICATIONS

Operating temperature		0 – +45 °C
Temperature measurement range	– Indoor temperature	0 – +50 °C
	– Outdoor temperature	–20 – +60 °C
Temperature resolation		0,1 °C
The indoor &outdoor humidity range		20 %–95 %
Humidity resolation		1 %
Durating of the alarm		1 minute
RF frequency		433 MHz
Transmission range		up to 30 m in the open area
Temperature measurement accuracy		±1,5 °C
Humidity measurement accuracy		±8 % RV
Dimensions and weight of the main unit		185 x 135 x 35 mm, 302 g
Outdoor sensor		95 x 60 x 25 mm, 56 g

CE Fast ČR, a.s. declares that SWS 51 conforms to the basic requirements and other relevant provisions of directive 1999/5/ES. The device can be operated in the EU without restriction. The declaration of conformity is a part of the user's manual or can be found at the website www.sencor.eu.

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.

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

SENCOR®

EN Warranty conditions

Warranty card is not a part of the device packaging.

This product is warranted for the period of 24 months from the date of purchase to the end-user. Warranty is limited to the following conditions. Warranty is referred only to the customer goods using for common domestic use. The claim for service can be applied either at dealer's shop where the product was bought, or at below mentioned authorized service shops. The end-user is obligated to set up a claim immediately when the defects appeared but only till the end of warranty period. The end user is obligated to cooperate to certify the claiming defects. Only completed and clean (according to hygienic standards) product will be accepted. In case of eligible warranty claim the warranty period will be prolonged by the period from the date of claim application till the date of taking over the product by end-user, or the date the end-user is obligated to take it over. To obtain the service under this warranty, end-user is obligated to certify his claim with duly completed following documents: receipt, certificate of warranty, certificate of installation.

This warranty is void especially if apply as follows:
- Defects which were put on sale.
- Wear-out or damage caused by common use.
- The product was damaged by unprofessional or wrong installation, used in contrary to the applicable instruction manual, used in contrary to legal enactment and common process of use or used for another purpose which has been designed for.
- The product was damaged by uncared-for or insufficient maintenance.
- The product was damaged by dirt, accident of force majeure (natural disaster, fire, and flood).
- Defects on functionality caused by low duality of signal, electromagnetic field interference etc.
- The product was mechanically damaged (e.g. broken button, fall).
- Damage caused by use of unsuitable media, fillings, expendable supplies (batteries) or by unsuitable working conditions (e.g. high temperatures, high humidity, quakes).
- Repair, modification or other failure action to the product by unauthorized person.
- End-user did not prove enough his right to claim (time and place of purchase).
- Data on presented documents differs from data on products.
- Cases when the claiming product cannot be indentified according to the presented documents (e.g. the serial number or the warranty seal has been damaged).

Authorized service centers
Visit www.sencor.eu for detailed information about authorized service centers.