

SENCOR®

SWS 270



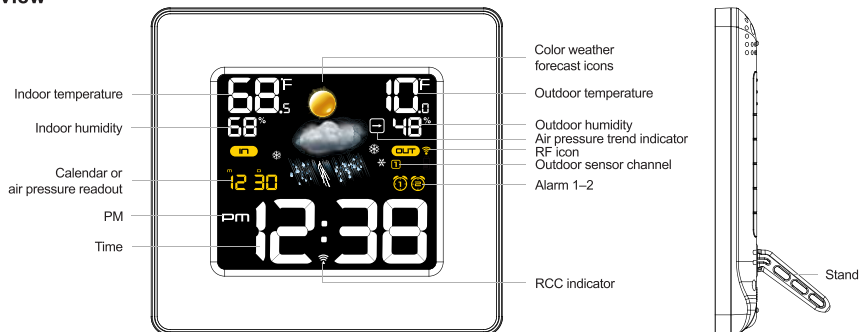
INSTRUCTION MANUAL

COLOR WEATHER FORECAST STATION

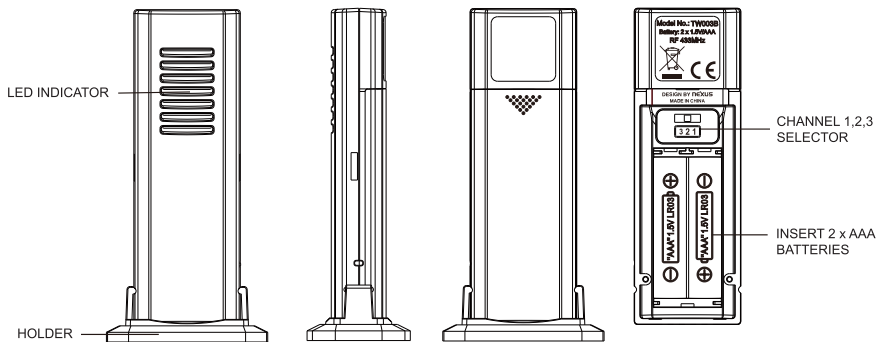
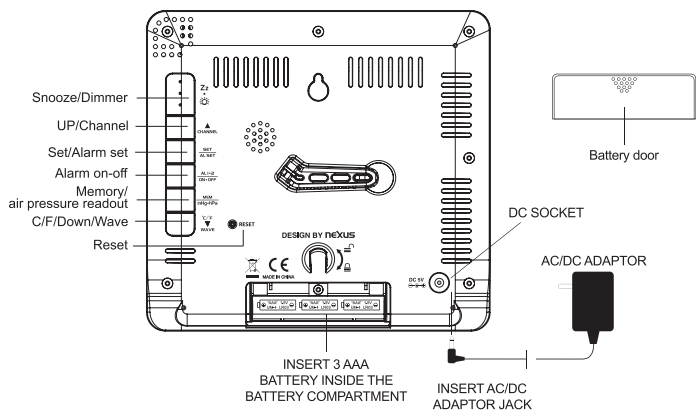
EN

DESCRIPTION OF THE DEVICE

Front view



Rear view



FEATURE LIST

- 4.7"/120mm (diagonal) display with 1.1" time digits
- Atomic time/date sets itself using the DCF radio signal
- Alarm 1 and Alarm 2
- Programmable Snooze
- Dimmer for nighttime viewing
- Color forecast : Sunny, Partly Cloudy, Cloudy, Rainy, Stormy
- 12 hour forecast based on changing air pressure
- Tendency indicator of weather forecast
- Indoor-outdoor temperature and humidity (RH%)
- Max-Min records of temperature and humidity
- Month-Date Calendar interchangeable with Air pressure readout (inHg)
- Degree C/F readout
- 12/24 hour time format
- 433Mhz wireless outdoor transmitter (one transmitter is included)
- Up to 200-feet transmission of outdoor temperature and humidity
- Auto scrolling of outdoor temperatures and humidity from various transmitters
- Low battery indicator of outdoor transmitter
- Can expand to use with two additional outdoor transmitters (not included)
- Main unit powered by external AC/DC adaptor
- Batteries: 3 "AAA" alkaline for backup of the main weather station
2 "AAA" alkaline for outdoor transmitter

ENVIRONMENTAL RECEPTION EFFECTS

Your atomic weather station clock obtains the accurate time with wireless technology. Same as all wireless devices, the receiving ability maybe affected by, but not limited to, the following circumstances:

- Long transmitting distance
- Nearby mountains and valleys
- Among tall buildings
- Near railway, high voltage cable etc.
- Near freeway, airport, etc
- Near construction site
- Inside concrete buildings
- Near electrical appliances
- Near computers and TV's
- Inside moving vehicles
- Near metallic structures

Place your clock at a location with optimal signal, i.e. close to a window and way from metal surfaces or electrical appliances.

QUICK SETUP

Step 1:

Insert the AC/DC adaptor to any 120V - 230V AC household outlet. Then insert the DC jack to the back case of your unit.

Step 2:

Keep your weather station and wireless outdoor transmitter next to each other. Slide open the battery cover at the back of your wireless outdoor transmitter, then insert 2 x AAA alkaline batteries to the battery compartment. Make sure the Channel selector is at **1** position. Replace the battery cover.


Make sure **1** (Channel 1) is displayed under the outdoor temperature and humidity. You could press **▲/CHANNEL** to select Channel 1.

Your weather station will receive data signal from the outdoor transmitter in few seconds. Then place your outdoor transmitter in a dry and shaded area.

Installing backup batteries to your unit

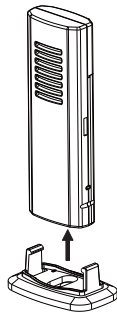
Your weather station requires 3 "AAA" alkaline batteries to provide backup power to it in the event of a temporary power interruption.

1. Place your unit face down on a flat surface.
2. Slide and remove the battery cover at the bottom of your unit.
3. Insert 3 "AAA" alkaline batteries into the battery compartment by observing the "+" and "-" polarity as indicated.
4. Replace the battery cover.

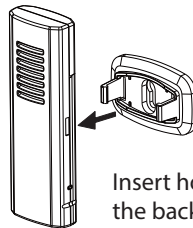
If the AC main power is interrupted, the backlight will go off. The backup batteries will keep the time and all settings of your unit. Press **Zz**  once to turn on the backlight for 5 seconds.

Remarks:

Keep in mind that your outdoor transmitter has a 200-meter open air transmission with no obstructions. Actual transmission range will vary depending on what is in the path of the signal. Each obstruction (roof, walls, floors, ceilings, thick trees, etc.) will effectively cut signal range in half.




Insert holder to the bottom for table-top display



Insert holder to the back for wall mounting


Insert the holder to the bottom of the outdoor transmitter for desktop or insert it to the back of the transmitter for wall mount purpose.

DCF RADIO TIME SIGNAL RECEPTION AND INDICATION

After your clock receives the outdoor temperature and humidity, it starts to receive the DCF time signal. The  icon flashes.

Receiving DCF signal ( icon flashing)

Successful Reception ( icon becomes static)

Failed Reception ( icon disappear)

Remark:

When your clock is receiving radio controlled time signal, all buttons except the snooze/light button do not function.






DCF TIME SIGNAL RECEPTION

Your weather station will automatically update itself to the exact time after receipt of the DCF time code. The clock will automatically attempt to receive the DCF signal every night at 1:00 am, 2:00 am and 3:00 am. If it fails until 3:00 am it will receive on 4:00 am and 5:00 am. After then it will stop receiving until 1:00 am next day.



To start DCF reception manually, press and hold **WAVE/▼(°C/°F)** button for 2 seconds. To stop reception, press and hold **WAVE/▼(°C/°F)** for 2 seconds.



TO SET YOUR UNIT MANUALLY

The setting of your unit comes into the sequence of Germany Time Zone, 12/24 hour, hours, minutes, year, month, date, month-date/date-month display and snooze duration.

1. Press and hold  for 2 seconds, time digits change to "00". Press **▲/▼** to set the time zone:
-01 GMT 00 hour (e.g. UK)
00 GMT + 1 hour (e.g. Germany)
01 GMT + 2 hour (e.g. Finland)
2. Then press  again, time digits change to "24Hr" and flash. Press **▲** or **▼** to select "12 Hr" time format. When 12Hr time format is selected, **PM** indicator will be displayed.
3. Then press  once again, "0" the hour digits flash. Press **▲** or **▼** button to set the hours. Press and hold **▲/▼**, will accelerate your setting faster.
4. Then press  once again, "00" the minute digits flash. Press **▲** or **▼** button to set the minutes. Press and hold **▲/▼**, will accelerate your setting faster.
5. Then press  once again, "Yr" and "2013" digits flash. Press **▲** or **▼** button to set the year.





6. Then press  once again, month digits flash. Press **▲** or **▼** button to set the month.
7. Then press  once again, date digits flash. Press **▲** or **▼** button to set the date.

8. Then press   once again, "m", "d", month-date digits flash. Press ▲ or ▼ to select month-date "m" "d" or date-month "d", "m" calendar display.







9. Then press   once again, "SN" and "05". Press ▲ or ▼ button to set the snooze duration from 5 minutes to 60 minutes.







10. Press   to return to normal mode, or it will return to normal mode in around 10 seconds if no further press of any other buttons.

TO SET ALARM TIME

1. Press   once, time digits change to alarm time digits "6:00" and "A1". Then press and hold   for 2 seconds, the alarm hour digits flash. Press ▲ or ▼ to set the hours of your desired alarm time.





2. Then press   once again, the alarm minute digits flash. Press ▲ or ▼ button to set the minutes of your desired alarm time.
3. Press   once, time digits change to alarm time digits "6:00" and "A2" is displayed. Then repeat the above in Alarm 1 setting.



4. Your weather station will return to normal mode, or it will return to normal mode in around 10 seconds if no further press of any other buttons.

TO TURN ON OR OFF YOUR DAILY ALARM






Simply press **AL1•2 ON•OFF** to turn on or off the Alarm 1, Alarm 2, or Alarm 1 & 2.

When Alarm 1 is turned on, the  appears. When Alarm 2 is turned on, the  appears.

TO USE SNOOZE ALARM


When time reaches your set alarm time, your weather station will give a beep sound to wake you up.

The corresponding  or  will flash.

1. Press **Zz**  once to stop the alarm temporarily, the corresponding  or  keeps flashing. The alarm will beep again according to your set snooze duration.
2. When the alarm is sounding, press **AL1•2 ON•OFF** once, the alarm beep will stop,  or  will be displayed permanently and the alarm will beep again at the same time next day.

Alarm Duration: 2 minutes

TO USE THE DIMMER

Press **Zz**  button once to adjust the display brightness for nighttime viewing.

TO DISPLAY TEMPERATURE IN DEGREE °C OR °F







Simply press **WAVE/▼ (°C/°F)** to display temperature in degree °C or degree °F.

WEATHER FORECAST AND PRESSURE CHANGE INDICATOR


Your weather station has a built-in barometric sensor which measures the change of the air pressure over time. Your weather station takes around 12 hours to gather and average air- pressure readings to provide a weather forecast for next 12 hours.


WEATHER ICONS


There are five possible types of weather icons that will be displayed:

SUNNY	
SUNNY AND CLOUDY (PARTLY SUNNY)	
CLOUDY	
RAINY	
STORMY	
FROST ALERT	 Frost Alert Icon appears when outdoor temperature is below +3°C

AIR PRESSURE CHANGE INDICATORS

When the  arrow appears, the air pressure is increasing, the weather is expected to improve.

When the  arrow appears, the air pressure is decreasing, the weather is expected to become worse.



When the  arrow appears, the air pressure change is stable.

Remarks:

Moving your weather station from one floor of a building to another floor will affect the accuracy of your weather station, which should operate at the same altitude all the time. If you move it to a new location, it will take 12 hours to get stable and accurate again.

Our weather station provides next 12 hours weather forecast. It may not match with the current weather condition outside.

TO DISPLAY AIR PRESSURE READOUT


Press and hold  until the calendar display shows the air pressure readout in hPa. Press and hold  again to revert back to calendar display.

TO READ MAXIMUM-MINIMUM IN-OUT TEMPERATURES AND HUMIDITIES

Press the **MEM/inHg** to view the maximum indoor-outdoor temperatures and humidities records with “**MAX**” icons appearing on the display. Press again to view the minimum indoor-outdoor temperatures and humidities and the air pressure with “**MIN**” icons appearing on the display.





When the maximums or minimums are displayed, press and hold the **MEM/inHg** to reset both records and it will start to record the maximums and minimums again.

IF YOU LOSE THE OUTDOOR TEMPERATURE AND HUMIDITY





When the outdoor temperature and humidity digits show ‘---’, the wireless transmission is either interrupted or lost. Press and hold the **▲/CHANNEL** button to start searching for the signal from the outdoor transmitter with the  flashing.



If you continue to lose the outdoor temperature and humidity display, which could happen in extreme cold weather, try moving the transmitter to a different location until you have smooth transmission of temperature/humidity data.

HOW TO SYNCHRONIZE YOUR WEATHER STATION WITH ANOTHER OUTDOOR TRANSMITTER


1. Press **▲/CHANNEL** at the back of your weather station,  icon appears under your outdoor temperature and humidity.
2. Press and hold **▲/CHANNEL** until the  icon blinks, your weather station is searching for the signal of another outdoor transmitter at Channel 2.
3. Slide open the battery door of your second transmitter, slide the switch to the middle position marked with 2, then insert two AAA batteries into the battery compartment by observing the correct +/- polarity. Replace the battery cover.
4. The outdoor temperature and humidity of your second transmitter will appear on the LCD together with  icon within few seconds. If the data still does not appear, re-insert the batteries on the second transmitter
5. To synchronize your weather station with a third outdoor sensor, repeat the same step by choosing  on your weather station and select **3** on your third transmitter.

AUTO SCROLLING THE OUTDOOR TEMPERATURE AND HUMIDITY OF DIFFERENT TRANSMITTER

Press **▲/CHANNEL** one at a time until the  icon flashes. Then the outdoor temperature and humidity of different outdoor transmitter will be displayed for few seconds alternately with , ,  flashing.

To stop the auto scrolling, press **▲/CHANNEL** once to go back to constant display of the temperature and humidity of the  transmitter, the  icon remains static on the display.

LOW BATTERY INDICATION OF YOUR OUTDOOR TRANSMITTER

The  icon will appear to indicate the battery level of your outdoor transmitter is getting low. You may need to replace the batteries of your outdoor transmitter with new ones.

Extremely cold weather (e.g. below -10 °C) will also cause low battery voltage. Do not use rechargeable batteries because they do not have the prescribed voltage of 1.5 V.

TROUBLESHOOTING

In case your weather station clock shows irrelevant information or digits, it maybe affected by electrostatic discharge or interferences from other devices. Use a sharp object to press **RESET**. Your unit will be reset to default settings and you need to set the time, calendar and alarm time again.

Problem	Solution
LCD is blank	<ol style="list-style-type: none"> 1. Press RESET on the main unit. 2. Replace fresh batteries in your weather station.
No Outdoor Temperature and Humidity is displayed	<ol style="list-style-type: none"> 1. Press and hold ▲ / CHANNEL on the weather station. 2. Press and hold ▲ / CHANNEL, then re-insert the batteries on the outdoor transmitter. 3. Make sure the correct channel is selected on your weather station (default setting is 1 – Channel 1) 4. Observe if the Low Battery icon appears on the left of the outdoor temperature. If yes, replace batteries in outdoor sensor with fresh alkaline batteries. 5. No other interfering sources are being used (such as computer monitors, TV sets, headphones, or speakers) in the path of signal from the outdoor sensor. The signal travels in a straight line, an electrical source near that “line” may cause interference.
Temperature, humidity, or air pressure is incorrect	<ol style="list-style-type: none"> 1. Press RESET on the main unit. 2. Make sure your main unit and the outdoor transmitter is away from sources of heat/cold/direct sunshine.

CARE AND MAINTENANCE

1. Do not expose the unit to extreme temperature, water or direct sunlight.
2. Avoid contact with any corrosive materials.
3. Do not subject the unit to excessive force, dust or humidity.
4. Do not open the inner back case or tamper with any components of this unit.
5. Do not plug in any other AC/DC adaptor with incorrect specifications or voltage.

SPECIFICATIONS

Temperature Range

Indoor +32°F to +122°F (0°C to +50°C) (display shows HH.H/LL.L if out of this range)

Outdoor -13°F to +158°F (-25°C to +70°C) (display shows HH.H/LL.L if out of this range)

HH.H – the upper limit of the temperature range was exceeded.

LL.L – the lower limit of the temperature range was exceeded.

Accuracy of temperature +/- 1°C

Humidity Range

Indoor 20% - 95%

Outdoor 20% - 95%

Temperature sensitivity 0.1°C

Humidity sensitivity 1%

Temperature & Humidity measure every 30 seconds

Air Pressure Range 850 hPa to 1050 hPa

Alarm Duration 2 minutes

Snooze Duration 5 minutes

Radio frequency 433 MHz

Transmission range up to 50m in open terrain and without electromagnetic interference

Power supply for station power adapter 5 V, 1.2 A (included) and batteries

3 x 1.5 V type AAA (not included)

Dimensions of the station 138 x 148 x 48 mm (h x w x d)

Weight of the station 220 g (without batteries)

Power supply for outdoor transmitter batteries 2 x 1.5 V type AA

Dimensions of the transmitter 103 x 50 x 32 mm (h x w x d)

Weight of the transmitter 31 g (without batteries)

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.



The product meets EU requirements.

Hereby, Fast ČR, a.s. declares that the radio equipment type SWS 270 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:
www.sencor.eu

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.