

SENCOR®



SWS 8700

USER MANUAL

UŽIVATELSKÁ PŘÍRUČKA

POUŽÍVATEĽSKÁ PRÍRUČKA

HASZNÁLATI ÚTMUTATÓ

INSTRUKCJA OBSŁUGI

EN

CZ

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PL

**WIRELESS WEATHER STATION WITH COLOUR
CHANGE DISPLAY**

**BEZDRÁTOVÁ METEOROLOGICKÁ STANICE
SE ZMĚNOU BAREV DISPLEJE**

**BEZDRÔTOVÁ METEOROLOGICKÁ STANICA
SO ZMENOU FARIEB DISPLEJA**

**VEZETÉK NÉLKÜLI METEOROLÓGIAI
ÁLLOMÁS SZÍNVÁLTÓ KIJELZŐVEL**

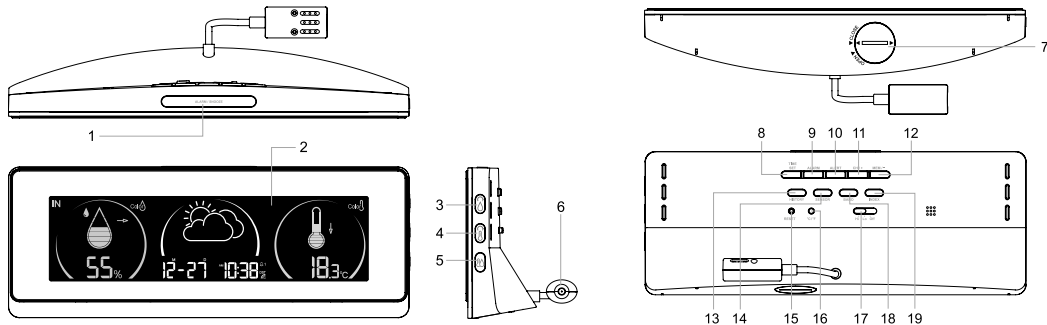
**BEZPRZEWODOWA STACJA METEOROLOGICZNA
ZE ZMIENNYM KOLOREM WYŚWIETLACZA**

INTRODUCTION

Thank you for selecting this delicate Advance iconic wireless weather station. Utmost care has gone into the design and manufacture of the clock. This manual is used for DCF / MSF version. Please read the instructions carefully according to the version you purchased and keep the manual well for future reference.

OVERVIEW

MAIN UNIT



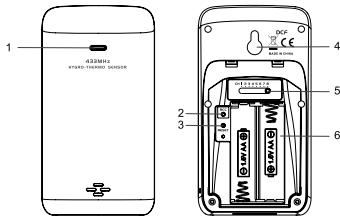
1. **[ALARM / SNOOZE]** key
 - When alarm is sounding, press to stop the current alarm and enter snooze.
 - When alarm is sounding, press and hold for 2 seconds to stop the current alarm, the clock will sound again in the next day.
2. LCD display
3.  Loop button (colour setting). (When turned off, the last displayed colour remains)
 - Press to turn on /off the auto-colour looping function in humidity section.
4.  Loop button (colour setting). (When turned off, the last displayed colour remains)
 - Press to turn on /off the auto-colour looping function in temperature section.
5.  key
 - Press to activate the colour by temperature and humidity mode
6. Power jack
7. Backup battery compartment
8. **[TIME SET]** key
 - In normal mode, press to display the calendar, time of alarm 1 or alarm 2, or press and hold for 2 seconds to enter time setting mode.
9. **[ALARM]** key
 - In normal mode, press to turn on / off alarm 1 & alarm 2.
 - When alarm is sounding, press to stop the current alarm.
 - In alarm 1 or alarm 2 time display mode, press and hold for 2 seconds to enter the alarm setting mode
10. **[ALERT]** key
 - In normal mode, press and hold for 2 seconds to enter thermo-hygro alert setting mode.
11. **[CH / +]** key
 - In normal mode, press to switch between Indoor and CH 1~8 of outdoor sensor's weather display.
 - In normal mode, press and hold for 2 seconds to enter auto-cycle mode of Indoor and CH 1~8 of outdoor sensor's weather display.
 - In setting mode, press to increase the setting values.
12. **[MEM / -]** key
 - In normal mode, press to check maximum and minimum thermo-hygro reading with time stamp.
 - In setting mode, press to decrease the setting values.
13. **[HISTORY]** key
 - In normal mode, press to display the past 24 hour thermo-hygro and barometric pressure records.
14. **[SENSOR]** key
 - Press to activate the pairing mode for certain sensor's channel.
15. **[RESET]** key
 - In case of malfunction, press to reset the main unit.
16. **[°C / °F]** key
 - In normal mode, press to switch between °C /°F format.
17. **[HI / LO / OFF]** sliding switch
 - Slide to the **[HI]** position for brighter backlight.
 - Slide to the **[LO]** position for dim backlight.
 - Slide to the **[OFF]** position for turn-off the backlight display.
18. **[Baro]** key
 - Press to show the barometric reading.
19. **[INDEX]** key
 - In normal mode, press to toggle the between current temperature and heat index reading.

LCD DISPLAY



1. In / Ch. 1-8 humidity reading and icon section
2. Weather forecast section
3. In / Ch. 1-8 temperature reading and icon section
4. Time and calendar section

WIRELESS THERMO-HYGRO SENSOR WITH RCC RECEIVE FUNCTION



1. Transmission status LED
2. **[RCC]** receive key
 - Press for RCC receiving.
3. **[RESET]** key
4. Wall mounting holder
5. **[CHANNEL]** slide switch
 - Assign the sensor to Channel 1,2,3,4,5,6,7 or 8.
6. Battery compartment

GETTING STARTED

WIRELESS SENSOR

1. Remove the battery door.
2. Assign the channel no. (CH 1~8) for the wireless sensor by using channel slide switch.
3. Insert 2 × AA size batteries into the battery compartment. Make sure you insert them the right way according to the polarity information marked on the battery compartment.
4. Press **[RCC]** key for receiving the radio controlled time signal.
5. Close the battery door.

Note:

- This wireless sensor can receive the radio controlled clock signal for main unit auto time-sync. Just pair up the sensor with main unit to apply this function.
- Once the channel is assigned to a Wireless thermo-hygro sensor, you can only change it by removing the batteries or resetting the unit.
- Avoid placing the sensor in direct sunlight, rain or snow.

MAIN UNIT

1. Plug the power adapter to power up the main unit.
2. Once the main unit power up, it will enter normal time mode.

Note:

- This unit is equipped with a CR2032 battery as a clock backup during a power interruption.
- If no display appears on the LCD after installing the batteries, press the **[RESET]** key by using a metal wire.
- To avoid the wireless sensor and main unit pairing fail, please power up the sensor(s) first, and then press **[RESET]** key in main unit after sensor setup.
- You may not receive the signal immediately. Due to the atmospheric disturbance, the best reception often occurs during night time.

WIRELESS SENSOR SIGNAL RECEIVING

1. In normal mode, press **[SENSOR]** key to pair the sensor of current displaying channel.
For example, when **CH 1** is displayed, pressing **[SENSOR]** key to start pair the channel 1 sensor.
2. The signal icon will flash until the reception succeeded. If no signal is received within 5 minutes the icon will disappear.

Receiving wireless signal after manual reset or the **[SENSOR]** key is pressed



When no sensor signal received, “—” will display in the readings field



Good wireless sensor signal received



3. If the signal for **Ch 1~8** has discontinued and does not recover within 1 hour, the signal icon will disappear. The temperature and humidity will display “Er” for the corresponding channel.
4. If the signal does not recover within 48 hours, the “Er” display will become permanent, you need to reset the corresponding sensor and then press **[SENSOR]** key to pair up the sensor again.

**Note:**

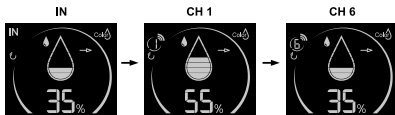
After replacing the batteries of the wireless sensor or the unit fails to receive wireless sensor signal of a specified channel, press **[SENSOR]** key to manually receive that sensor signal again.

VIEW INDOOR AND MULTIPLE WIRELESS SENSOR CHANNELS

1. In normal mode, press **[CH / +]** key to switch the display between **IN** and **CH 1~8**.
2. In normal mode, press and hold **[CH / +]** key for 2 seconds to enter auto-cycle mode. After a “bi” sounds, the auto-cycle icon “” display and it will alternately displays the **IN** and **CH 1~8** at 4 second intervals.
3. During auto-cycle mode, press **[CH / +]** key again to stop auto-cycle mode and display the current channel.

Under auto-cycle mode, it will only alternately display indoor and paired channels.

For example, when **CH1** and **CH6** have been paired, it will only alternately display the weather reading of **IN** → **CH1** → **CH6**, and other channels will be neglected.



RECEPTION OF RADIO CONTROLLED SIGNAL

The time and date are radio-controlled. The current time and date are automatically synchronized with the signal that transmitted from RC station through wireless sensor. Please make sure the wireless sensor is connected to the main unit.

RCC SIGNAL STRENGTH INDICATOR

The signal indicator shows signal receive status. The signal receiving status could be classified into 2 types:

	
No RCC signal received	Received RCC signal

Note:

- Every day the wireless sensor will automatically search for the time signal at 2:00 and 17:00.

- Always place the unit away from interfering sources such as TV set, computer, etc.
- Avoid placing the unit on or next to metal plate.
- Closed area such as airport basement, tower block or factory is not recommended.
- Do not start reception on a moving article such as vehicle or train.

DAYLIGHT SAVING TIME (DST)

This clock has been programmed to automatically switch when the daylight saving time is in effect. User can disable the DST function in time and calendar setting mode.

Note:

DST AUTO/OFF setting only available when RCC function is ON.

TIME AND CALENDAR SETTING

- In normal mode, press and hold **[TIME SET]** key for 2 seconds to enter date and time setting mode.
- Press **[CH / +]** or **[MEM / -]** key to adjust the setting.
- Press **[TIME SET]** key to enter the next setting.
- The setting sequence: 12/24H → hour → minute → year → DM / MD → month → day → ±23 Hour offset → RCC ON / OFF → DST AUTO / OFF Weather forecast icon Animation ON / OFF.
- Press **[TIME SET]** key or leave the unit for 60 seconds to complete the setting and return to normal mode.

12/24H setting		
Hour/Minute/ setting		
Year setting		
Month/day setting		
±23 Hour offset		00H → 01H...23H → -23H...-01H → 00H
RCC setting		
DST (day light saving) setting		
Weather forecast icon Animation		

ALARM TIME SETTING AND DISPLAY

1. In normal time mode, press **[TIME SET]** key to display the time of alarm 1 and press it again to display alarm 2.
2. Press and hold **[ALARM]** key for 2 seconds until the alarm hour digit flashes to enter current alarm time setting mode.

3. Press **[CH / +]** or **[MEM / -]** key to change the value. Press and hold the key for quick-adjust.
4. Repeat the above operations to set the alarm time in this order: Hour → Minute.



5. When you complete the setting of Minute, Press **[ALARM]** key or leave the unit for 60 seconds to return to normal mode.

Note:

The alarm function will turn on automatically once you set the alarm time.

USING ALARM AND SNOOZE FUNCTION

- Set the desired alarm time as described in the above section.

Or

1. Press the **[ALARM]** button once to turn on alarm 1 "A1".
 2. Press the **[ALARM]** button again to turn on alarm 2 "A2".
 3. Press the **[ALARM]** button again to turn on alarm 1 "A1" and alarm 2 "A2".
 4. Press the **[ALARM]** button again to turn off alarm 1 "A1" and alarm 2 "A2".
- When clock reach the alarm time, alarm sound will start.

Where it can be stopped by following operation:

- a) Auto-stop after 2 minutes alarming if without any operation and the alarm will activate again in the next day.
- b) By pressing **[ALARM / SNOOZE]** key to enter snooze that the alarm will sound again after 5 minutes.
- c) By pressing and hold **[ALARM / SNOOZE]** key for 2 seconds to stop the alarm and will activate again in the next day

d) By pressing **[ALARM]** key to stop the alarm and it will activate again in the next day.

Note:

- The snooze could be used continuously in 24 hours.
- During the snooze, the alarm icon "🔔" or "🔔2" will keep flashing.

TEMPERATURE AND HUMIDITY TREND

The temperature and humidity trend indicator shows the trends of changes in the forthcoming few minutes. Arrows indicate a rising, steady or falling trend.

Arrow indicator	↑	→	↓
Trend	Rising	Steady	Falling

MOLD INDICATION

The mold icon "🍄" is a pictorial indication based on indoor and outdoor air temperature and humidity in an attempt to determine risk of mold. Allows you to monitor some of the key factors in the home that can lead to mold, dust mites, and bacteria.



Note:

Mold indication is just a reference for you to monitor your living environment and remind you the risk of mold.

THE ICE ICON

When the temperature of the current channel is 3°C or below, the flashing ice icon "❄️" will appear in temperature section.



HEAT INDEX

In normal mode, press the **[INDEX]** key to show **HEAT INDEX** value.



Heat index	Risk level	Potential risk
Above 46.1°C	Extreme Danger	Heat stroke or sunstroke highly likely
39.5°C ~ 46.1°C	Danger	Sunstroke, muscle cramps, and /or heat exhaustion likely
32.8 °C ~ 39.4°C	Extreme Caution	Sunstroke, muscle cramps, and/or heat exhaustion possible
26.7 °C ~ 32.7°C	Caution	Fatigue possible

Note:

Heat index is only calculated when room temperature is between 26 ~ 50°C, and based solely from the temperature and humidity measured from the indoor or outdoor wireless sensors.

WEATHER FORECAST

The built-in barometer can notice atmosphere pressure changes. Based on the data collected, it can predict the weather conditions in the forthcoming 12 - 24 hours.

**Note:**

1. The accuracy of a general pressure-based weather forecast is about 70% to 75%.
2. The weather forecast is meant for the next 12 - 24 hours, it may not necessarily reflect the current situation.
3. The **SNOWY** weather forecast is not based on the atmospheric pressure, but based on the temperature of current channel. When the outdoor temperature is below -3°C, the **SNOWY** weather indicator will be displayed on the LCD.

BAROMETRIC / ATMOSPHERIC PRESSURE

1. When the alarm time or date is shown, press **[BARO]** key to show the barometric reading.
2. Press **[BARO]** key again to change the unit between inHg / mmHg / hPa.
3. When the baro reading is shown, press and hold **[BARO]** key for 2 seconds to toggle between:

ABSOLUTE: the absolute atmospheric pressure of your location

RELATIVE: the relative atmospheric pressure based on the sea level.

TO SET RELATIVE ATMOSPHERIC PRESSURE VALUE

1. Press and hold the **[BARO]** key for 2 seconds until "Abs" or "Rel" icon flashes.
2. Press **[CH / +]** or **[MEM / -]** key to switch to **RELATIVE** mode.
3. Press the **[BARO]** key once again until the **RELATIVE** atmospheric pressure digit flashes.
4. Press **[CH / +]** or **[MEM / -]** key to change the value.
5. Press the **[BARO]** key to save and exit the setting mode.

Note:

- The default relative atmospheric pressure value is 1013 hPa (29.92 inHg), which refers to the average atmospheric pressure.
- When you change the relative atmospheric pressure value, the weather indicators will change along with it.
- The relative atmospheric pressure is based on the sea level, but it will change with the absolute atmospheric pressure change.

PAST 24 HOURS HISTORY RECORD

The main unit will record past 24 hours weather data of In / outdoor thermo-hygro & barometric pressure records automatically.



1. Press the **[HISTORY]** key to check past 1 hour history records of current channel.
2. Press **[HISTORY]** key repeatedly to show past 2, 3, 4, 5.....24 history weather records.

MAX/MIN RECORD

The main unit preserves the MAX/MIN weather data records since the last manual reset.

1. In normal mode, press **[MEM / -]** key once to show the current channel's maximum temperature.
2. Press **[MEM / -]** key repeatedly to show the MAX/MIN reading with time stamp in this order: maximum temperature → minimum temperature → maximum humidity → minimum humidity → back to normal mode.
3. When the MAX/MIN records are shown, the display will return to normal mode after 6 seconds.
4. To erase the MAX/MIN records of current display channel, press and hold **[MEM / -]** key for 2 seconds when the unit is displaying MAX record.

ALERT SETTING AND DISPLAY

The unit can setup HI / LO temperature & humidity alert for indoor and up to 8 outdoor channels.

1. In normal mode, press and hold **[ALERT]** key for 2 seconds to enter alert setting mode and current channel's icon will flash. Press **[CH / +]** or **[MEM / -]** key to select **IN** or **CH 1~8**.
2. Press **[ALERT]** key to enter the next setting.
3. The alert setting sequence: Channel → HI temperature → LO temperature → HI humidity → LO humidity → Channel.
4. Press **[CH / +]** or **[MEM / -]** key to modify the value by 0.1 °C/°F for temperature or 1% for humidity, you can also press and hold to quick adjust the value.
5. When setting the HI / LO temperature or humidity value, press **[ALARM]** key to toggle the alarm on/off of the regarding HI / LO alert.
6. When finished, press and hold **[ALERT]** key for 2 seconds or without pressing keys for 60 seconds to return normal mode.



High humidity alert on

Low temperature alert on

To silence the alert alarm

When the alert is triggered, the alarm will sound and the alert icon & current reading on the display will flash. Press **[ALARM / SNOOZE]**, **[ALARM]** or **[ALERT]** key to stop the alarm sound. If you ignore the alarm, it will stop after 2 minutes.

Note:

- You cannot enter conflicting HI / LO values in the setting. For example, if the HI temperature alert value is 40°C, you cannot enter more than 39.9°C for the LO alert, and so forth.
- In auto-cycle mode, if any alert is triggered the display will switch to the regarding channel. After stopping the alarm. The display will return to auto-cycle mode afterwards.
- If the alert alarm is automatically off after 2 minutes, the alert icon will still keep flash until the weather reading is out of the alert range.
- The weather alert will sound again when the weather readings falls into the alert range again.

HUMIDITY AND TEMPERATURE LEVEL ICON

The thermostat and water drop icon show the temperature and humidity level on the LCD display for you to know the current environment condition.

Temperature Level (Total 13 level)

Example				
				
Hi / $\geq 40.1^{\circ}\text{C}$	35.1 ~ 40°C	15.1 ~ 20°C	$\leq -15^{\circ}\text{C}$ / Lo	-- / Er

Humidity Level (Total 7 level)

Example				
				
Hi / $\geq 81\%$	71 ~ 80%	51 ~ 60%	$\leq 30\%$ / Lo	- / Er

Note:

- When the temperature is below -40°C or above 70°C, “Lo” or “Hi” will be displayed respectively.
- Humidity range below 1% or above 99%, “Lo” or “Hi” will be displayed respectively.
- No temperature / humidity level when the reading is out of temperature / humidity display range.

COLOURFUL BACKLIGHT DISPLAY

- Slide **[OFF / LO / HI]** slide switch to **[OFF]** position to turn off the backlight (pressing **[ALARM / SNOOZE]** key to turn on the backlight for 5 seconds). Slide to **[LO]** position for the dimmer backlight. Slide to **[HI]** position for the brighter backlight.
- When the backlight is on, press **[8]** color loop key to turn on/off auto-color looping function at humidity section.
- When the backlight is on, press **[8]** color loop key to turn on/off auto-color looping function at temperature section.
- Press **[80]** key to activate colour by temperature & humidity mode and change backlight color according to temperature & humidity readings on the display. It has 13 backlight colours to display different temperature ranges and 7 colours to display different humidity ranges.

Temperature colour level		
Level	Temperature Range (°C)	Colour by temperature
1	≤ -15	Deeper Purple
2	-14.9 ~ -10	Purple
3	-9.9 ~ -5	Dark Blue
4	-4.9 ~ 0	Light Blue
5	0.1 ~ 5	Dark Aqua
6	5.1 ~ 10	Light Aqua
7	10.1 ~ 15	Peak green
8	15.1 ~ 20	Green
9	20.1 ~ 25	Yellow
10	25.1 ~ 30	Light Orange
11	30.1 ~ 35	Orange
12	35.1 ~ 40	Light Red
13	≥ 40.1	Red
	No reading	Green

Humidity colour level		
Level	Humidity Range (%)	Colour by humidity
1	≤ 30	Red
2	31 ~ 40	Orange
3	41 ~ 50	Yellow

4	51 ~ 60	Green
5	61 ~ 70	Light Aqua
6	71 ~ 80	Light Blue
7	≥ 81	Dark Blue
	No reading	Dark Blue

Note:

Once the colour by temperature and humidity mode is on, “” and “” icon will shown on the display.

LOW BATTERY ICON

If the low in battery indicator “” appear in the outdoor temperature region, it indicates that the battery power of the transmitter is not enough, and you should replace with 2 × AA size batteries at once.

IMPORTANT NOTE

- Read and keep these instructions.
- This main unit is intended to be used only indoors.
- Do not subject the unit to excessive force, shock, dust, temperature or humidity.
- Do not cover the ventilation holes with any items such as newspapers, curtains etc.
- Do not immerse the unit in water. If you spill liquid over it, dry it immediately with a soft, lint-free cloth.
- Do not clean the unit with abrasive or corrosive materials.
- Do not tamper with the unit's internal components. This invalidates the warranty.

- The socket outlet shall be installed near the equipment and shall be easily accessible.
- Only use fresh batteries. Do not mix new and old batteries.
- Do not dispose old batteries as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.
- Attention! Please dispose of used unit or batteries in an ecologically safe manner.
- Technical specifications and user manual contents for this product are subject to change without notice.

SPECIFICATIONS

MAIN UNIT

Dimensions (W × H × D)	220 × 83 × 39 mm
Main power	DC 5V, 500mA adapter
Backup battery	CR2032 button cell
Operating temperature range	-5°C to 50°C (23°F to 122°F)
Display temperature range	-40°C to 70°C (-40°F to 158°F)
Display humidity range	RH 1% to 99 %
Resolution of temperature	0.1°C / °F
Resolution of humidity	1%
Radio controlled signal	Received from wireless sensor
Number of sensors support	Up to 8 units

WIRELESS SENSOR

Dimensions (W × H × D)	61 × 113.6 × 39.5mm
Main power	2 × AA size 1.5V batteries (Lithium battery recommended for low temperature environment)
Operating temperature range	-40°C to 60°C (-40°F to 140°F)
Operating humidity range	RH 1% to 99 %
RF frequency	433MHz
RF transmission range	30 meters
Radio controlled signal	DCF

INSTRUCTIONS AND INFORMATION REGARDING THE DISPOSAL OF USED PACKAGING MATERIALS

Dispose of used packaging material at a site designated for waste in your municipality.

DISPOSAL OF USED ELECTRICAL AND ELECTRONIC EQUIPMENT



This symbol on products or original documents means that used electric or electronic products must not be added to ordinary municipal waste. For proper disposal, renewal and recycling hand over these products to determined collection points. Or as an alternative in some European Union states or other European countries you may return your products to the local retailer when buying an equivalent new product. Correct disposal of this product helps save valuable natural resources and prevents damage to the environment caused by improper waste

disposal. Ask your local authorities or collection facility for more details. In accordance with national regulations penalties may be imposed for the incorrect disposal of this type of waste.

For business entities in European Union states

If you want to dispose of electric or electronic appliances, ask your retailer or supplier for the necessary information.

Disposal in other countries outside the European Union

This symbol is valid in the European Union. If you wish to dispose of this product, request the necessary information about the correct disposal method from the local council or from your retailer.



The product meets EU requirements. Hereby, FAST ČR, a.s. declares that the radio equipment type SWS 8700 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

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

Address of the manufacturer: FAST ČR, a.s., Černokostelecká 1621, 251 01 Říčany

The original version is in the Czech language.

EN Warranty conditions **SENCOR®**

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.