

EN Weather station Solight TE81W-XL

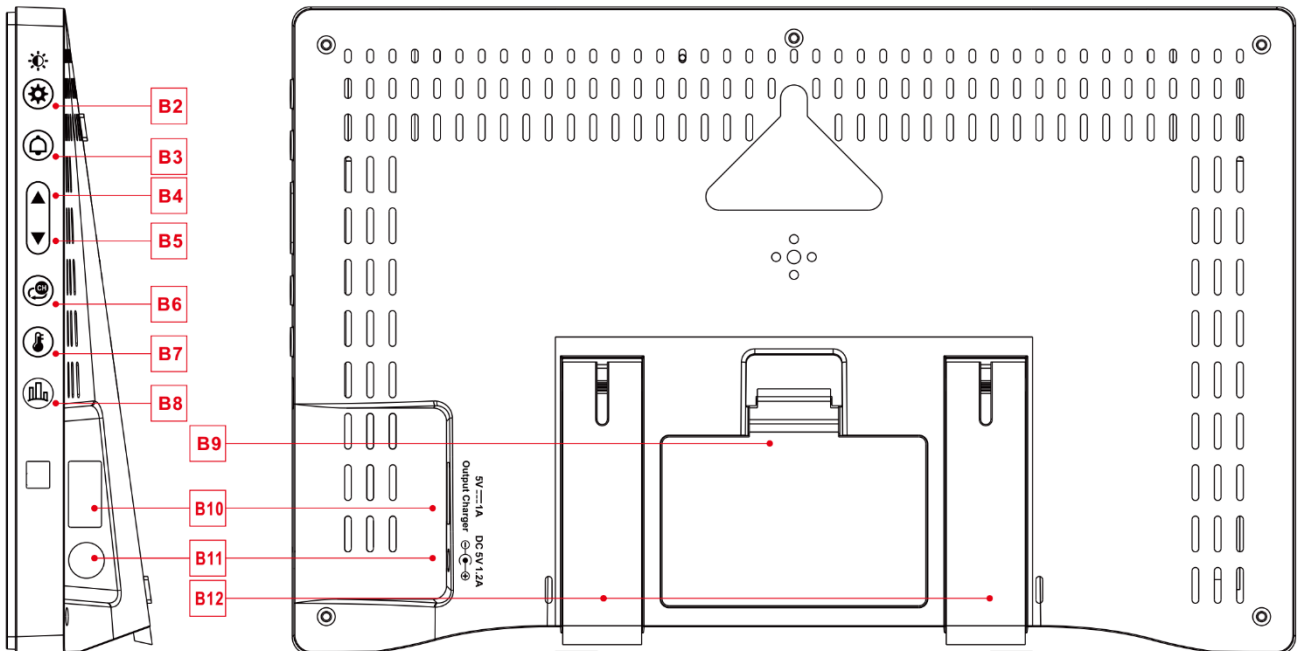
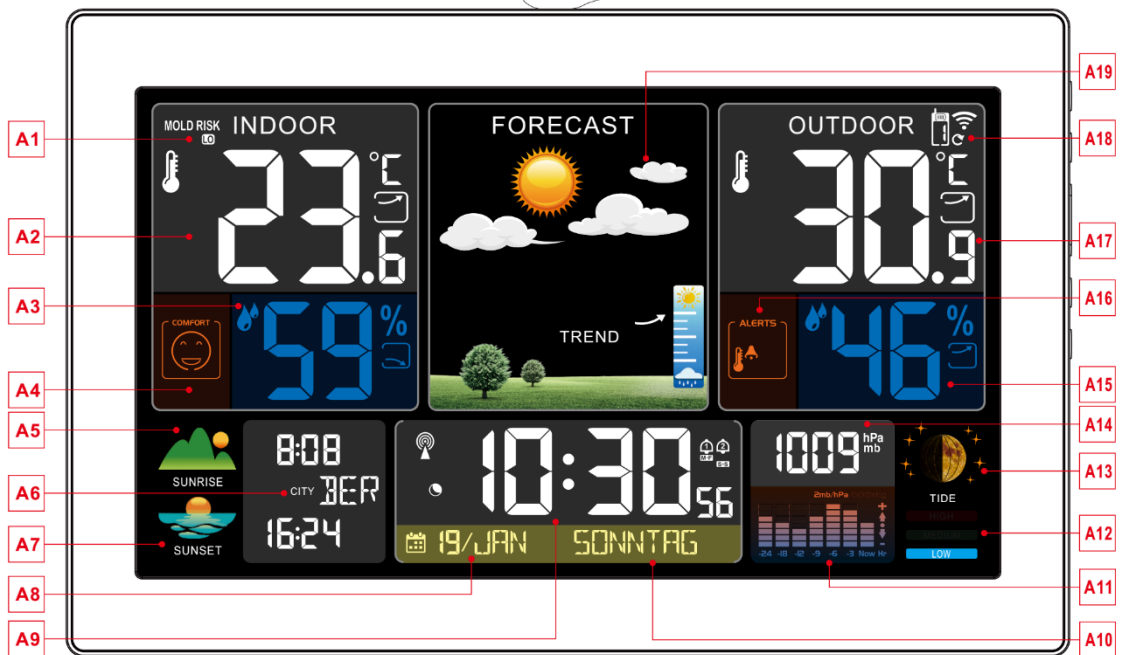
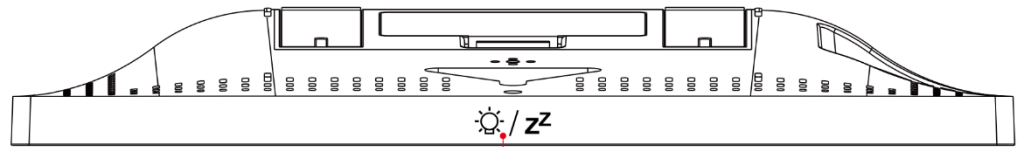
Dear customer, thank you for purchasing our product. If you want it to serve you safely and fully, please read these instructions carefully and follow them. This will avoid misuse or damage to the product. Avoid unauthorized use of this appliance and always respect all rules regarding the handling of electrical appliances. Keep the operating instructions for future reference.

Features

- DCF radio-controlled time
- calendar to 2099
- one day a week in 7 languages: English, German, Italian, French, Spanish, Dutch and Danish
- time in 12-hour or 24-hour format
- two daily alarms
- Automatic delay function (OFF or 5~60 min)
- sunrise and sunset times (for selected cities)
- Moon phases and tides
- Humidity: Indoor and outdoor measurable range: 20% RH ~ 95% RH
- Temperature:
 - Internal temperature measurement ranges: -9.9 °C to +50 °C
 - Outdoor temperature ranges: -40 °C to +70 °C
 - temperature can be given in °C or °F.
 - outdoor temperature warning
- display of minimum/maximum humidity and air temperature
- display of indoor comfort and mold risk
- upper and lower outdoor temperature limit and frost warning
- wireless outdoor sensor:
 - can be wall mounted or placed on a table
 - 433,92 MHz RF transmitting frequency
 - transmission range 60 meters in open space
- up to 3 wireless outdoor sensors can be connected. (One wireless outdoor sensor is included)
- atmospheric pressure:
 - atmospheric pressure measurement range: 600 hPa/mb to 1100 hPa/mb or 17.72 inHg to 32.50 inHg
 - pressure alternatively in hPa/mb or inHg
 - the histogram shows the historical evolution of pressure over the last 24 hours
- weather forecast function
- power:
 - weather station: battery: 2 x LR6 AA (alkaline) or power adapter: DC 5 V 1.2 A
 - Wireless outdoor sensor: 2 x LR6 AA (alkaline) batteries

The wireless remote sensor can operate at temperatures from -30 °C to +70 °C. Select the correct battery according to the temperature limit of the wireless sensor. The alkaline zinc-magnesium battery can operate at temperatures from -20 °C to +60 °C. Polymer lithium-ion rechargeable battery can operate at temperatures from -40 °C to +70 °C

Description

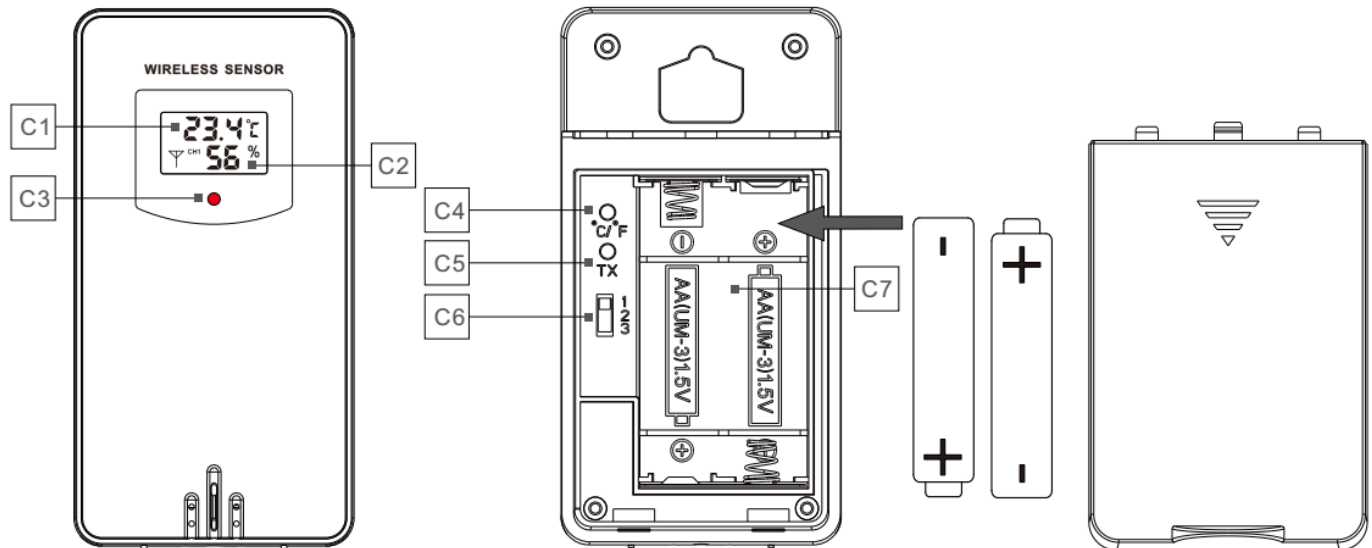


Part A - Display

A1: Risk of mould in the interior	A2: Indoor temperature	A3: Indoor humidity
A4: Indoor comfort index	A5: Sunrise time	A6: Selected city
A7: Sunset time	A8: Month and date	A9: Time
A10: Day of the week	A11: Pressure histogram	A12: Tidal level
A13: Phases of the Moon	A14: Atmospheric pressure	A15: Outdoor humidity
A16: Outdoor temperature warning	A17: Outdoor temperature	A18: Signal from outdoor sensor
A19: Weather forecast		

Part B - Buttons

B1: touch ☀ / Z ² button	B2: Display illumination ⚙ ☀	B3: Alarm clock ⌚
B4: Up arrow ▲	B5: Down arrow ▼	B6: 🔄 Change channel (sensor)
B7: 🌡 Temperature alarm	B8: city settings 🏠	B9: Battery compartment
B10: USB output (charger) 5V/1A	B11: Power socket	B12: Stand



Part C - Wireless sensor

C1: Temperature indicator	C2: Humidity indicator	C3: RF signal transmitting diode
C4: Switching units °C/°F	C5: TX button - start transmitter	C6: Channel switching
C7: Battery compartment		

Turn on

- Insert the batteries while observing the marked polarity. All icons of the weather station will light up for three seconds, an audible alarm will sound and the internal temperature, humidity and pressure measurements will start automatically. Then plug in the power supply.
- The weather station will now start to establish a connection with the wireless sensor. This takes about 3 minutes and is indicated by a flashing RF symbol in the "OUTDOOR" segment of the display. Insert the batteries into the wireless sensor, taking care to observe the marked polarity. The wireless signal transmission will start automatically. Set the desired channel using switch C6 and button B6 on the weather station. When the signal is received, the measured values are shown on the display.
- Up to three wireless sensors can be paired to the main unit. Use the B6 button to change channels on the main unit.
- If the signal is not received, -- is displayed. Long press the B6 button to invoke manual sensor pairing. Press button C5 on the sensor to do the same.

Settings

Long press the B2 button to enter the weather station settings. Use the arrow keys B4 or B5 to change the individual values. Confirm the selected value by pressing B2 briefly to switch to the next item in the settings. The same principle is used for setting values in other menus. The sequence of setting items is as follows (when setting the language to English):

BEEP -> TEMP -> PRESS -> AUTO RCC -> AUTO DST -> TIME ZONE -> FORMAT -> HOUR -> MINUTE -> YEAR -> MONTH
 --> DATE -> LANGUAGE -> REL PRESSURE -> WEATHER -> EXIT

If you want to end the setting early, touch the B1 touch button twice or wait 20 seconds without pressing a single button.

If the weather station is in the same time zone as Germany, the time zone is set to 00. If the weather station is located more than 1500 km away from the transmitting tower in Germany from which the time control signal is received, it is recommended to switch off the RCC function.

Pressure calibration

The weather forecast is based on an analysis of changes in air pressure. By default, the device is set to measure absolute pressure (ABS) but can be switched to display relative pressure (REL). Absolute pressure is the pressure that realistically corresponds to the value of the pressure measured directly at the measurement location. If you want to display relative pressure that is converted to sea level, do the following. Find out from weather stations in your area what the current relative pressure value is and set this value on your weather station. From now on, the relative pressure (REL) will be displayed on your weather station.

Note: The abbreviations ABS and REL are only displayed when adjusting pressure.



Setting daily alarms

Press and hold the B3 button for more than 2 seconds to enter alarm setting mode. The setting sequence is as follows (AL1 = Alarm 1 (B1); AL2 = Alarm 2 (B2)):

AL1 HOUR -> AL1 MINUTE -> AL1 REPEAT -> AL1 SNOOZE -> AL2 HOUR -> AL2 MINUTE -> AL2 REPEAT -> AL2 SNOOZE -> EXIT

REPEAT: M-F => Monday to Friday; S-S => Saturday and Sunday; M-S => Monday to Sunday.

SUSPEND: When set to OFF, the snooze function is not available. The unit of setting is minutes.

Press the B3 button briefly to toggle the display between alarm 1 and alarm 2. When the alarms are displayed, you can use the up arrow to turn on the alarm. It will start waking up at the set time. When the alarm is switched on, the display shows the or   icons.

Press B1 to activate the delayed wake-up function for the time you have set in the settings. To turn the alarm off, press any button or hold your finger on B1 for more than 2 seconds.

Note: If you do not turn off the alarm within two minutes, it will automatically turn itself off and start ringing again the next day at the set time. The alarm clock has 4 levels of rising volume.

Moon phase and tide indicator

The icons representing the phases of the moon are shown below. The strength of the tides is shown by the icons "HIGH", "MEDIUM", "LOW".



City settings

Press the B8 button briefly to enter city selection mode. Use the arrow keys to select the city abbreviation according to the table below.

Number	Country	City	Code	Number	Country	City	Code
44	Czech Republic (CZ)	Brno	BRN	118	Slovakia (SK)	Bratislava	BRV
45		Prague	PRG	119		Košice	KOS

Note: To select another of the preset cities, please contact our customer support.

- When selecting a city, press and hold the "▲" and "▼" buttons to quickly navigate to the desired city according to the serial number in the table.
- After selecting a city, press the "🏠" button to exit the selection mode and return to normal mode.
- If your city is not in the table, you can press and hold the "🏠" button for more than 2 seconds to enter the custom city setting mode. Before entering this setting you need to find out the time zone, longitude and latitude of your city.
- The sequence of setup items is as follows:
CITY CODE 1 -> CITY CODE 2 -> CITY CODE 3 -> TIME ZONE -> LONGITUDE -> LATITUDE -> END
- When you have finished selecting a city, the sunrise and sunset time is automatically calculated according to the location, time zone and current time of the selected city and displayed in the corresponding area.

Temperature and humidity detection

Internal temperature measurement range: -9.9 °C (+14°F) ~ +50 °C (+122°F), **LL.L** °C(°F) is displayed if the value is lower than -9.9 °C (+14°F), **HH.H** °C(°F) is displayed if the value is higher than +50 °C (+122°F).

Outdoor temperature measurement range: 40°C (-40°F) ~ +70°C (+158°F), **LL.L** °C(°F) is displayed if the value is below -40°C, **HH.H** °C(°F) is displayed if the value is above +70°C.

Indoor and outdoor humidity measurement range: 20%RH~95%RH, **19%RH** will be displayed if the value is lower than 20%RH, **96%RH** will be displayed if the value is higher than 95%RH.

Display data

The display can show maximum/minimum temperatures and relative humidity. Switch between the values with short presses of the down arrow. To reset all values, press and hold the down arrow for approx. 2 seconds.

Setting the outdoor temperature alert

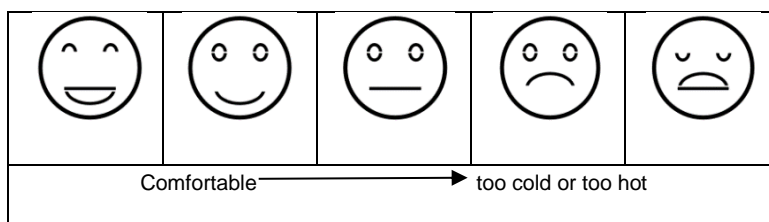
Press and hold the B7 button for about 2 seconds to enter the temperature alarm settings. The sequence of setting items is as follows: UPPER LIMIT -> LOWER LIMIT -> END. The limits can be set separately for each channel using button B6.

You need to turn on the alerts separately for each channel. So, first switch to the desired channel by briefly pressing the B6 button and then turn on the alert using the B7 button. If the temperature exceeds the set range, the weather station will emit three beeps. The temperature alarm icon and either the upper ▲ or lower limit ▼ symbol will flash simultaneously. Press any button to turn off the audible alarm. However, the symbol will remain displayed.

Another feature is the frost warning. If the temperature of the outdoor sensor is between -1 °C and +3 °C, the icon flashes ❄️.

Symbols of comfort and mold risk

The indoor comfort level is calculated according to the indoor temperature and humidity and has a total of five levels.







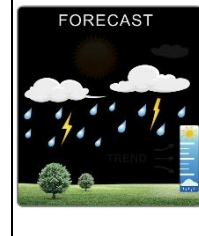
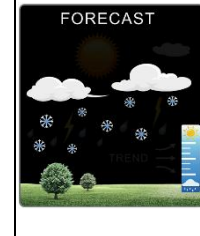
The risk level of mold is displayed in four levels: HI (high), ME (medium), LO (low), no icon (zero).

Low battery indication

If the battery icon is displayed 🔋 in the INDOOR segment, the batteries in the weather station need to be replaced. If the icon is displayed in the OUTDOOR segment, the battery in the wireless sensor on that channel needs to be replaced.

Weather forecast

The device calculates the weather forecast for approximately 12 hours in advance. The calculation is made on the pressure development basis. The forecast is only indicative and cannot be compared with large weather stations. This device provides only an approximate indication of the current weather trend in a small area. The forecast is represented by the following icons:

 The icon shows a bright sun in a clear blue sky above a green landscape with trees. The word "FORECAST" is at the top.	 The icon shows a sun partially obscured by a few white clouds in a blue sky above a green landscape with trees. The word "FORECAST" is at the top.	 The icon shows a sun partially obscured by white clouds in a blue sky above a green landscape with trees. The word "FORECAST" is at the top.	 The icon shows a sun partially obscured by white clouds in a blue sky above a green landscape with trees. Blue raindrops are falling from the clouds. The word "FORECAST" is at the top.	 The icon shows a sun partially obscured by white clouds in a blue sky above a green landscape with trees. Blue raindrops and yellow lightning bolts are falling from the clouds. The word "FORECAST" is at the top.	 The icon shows a sun partially obscured by white clouds in a blue sky above a green landscape with trees. White snowflakes are falling from the clouds. The word "FORECAST" is at the top.
Sunny	Slightly cloudy	Frozen	Rain	Storms	Snowfall

Notes:

- The "Snowfall" icon will only appear if the outside temperature is below -4°C ($+25^{\circ}\text{F}$) and the forecast is for rain or thunderstorms.
- The data for the forecast is collected from the first channel. If there is no signal on the first channel, then from the second channel and if there is no signal from either, then data from the third channel is used.
- After 7 - 10 days of air pressure measurements, the forecast will be stable with an accuracy of 70 - 75%.
- The forecast is valid for a radius of about 12 - 20 km.
- In the INDOOR and OUTDOOR section, the symbol of increasing or decreasing pressure may be displayed. If no symbol is displayed, the pressure remains constant.

Radio signal reception

- The clock will automatically start searching for a **DCF** signal 7 minutes after any reboot or battery change. The radio mast icon will start flashing.
- At 1:00 /2:00/3:00, the clock will automatically synchronise with the **DCF** signal to correct any deviations from the exact time. If this synchronization attempt is unsuccessful (the radio mast icon disappears from the display), the system will automatically attempt another synchronization at the next full hour. This procedure is automatically repeated up to five times in total.
- To start manual reception of the **DCF** signal, press and hold the "**▲**" button for two seconds. If no signal is received within 7 minutes, the **DCF** signal search will stop (the radio mast icon will disappear) and start again on the next full hour.
- To stop searching for a radio signal while receiving a DCF radio signal, press and hold the "**▲**" button for two seconds.

Notes:


- A flashing radio mast icon indicates that **DCF** signal reception has started.
- A continuously displayed radio mast icon indicates that the **DCF** signal has been successfully received.
- The "**DST**" symbol indicates the time of daylight saving time adoption.
- We recommend a minimum distance of 2.5 metres from all sources of interference such as televisions
- Radio reception is weaker in rooms with concrete walls (e.g. basements) and in offices. In these extreme cases, place the system near a window.
- During DCF radio reception mode, only the "**▲**" button works, other button operations can only turn on the backlight. To perform other operation functions, press the "**▲**" button to exit the DCF radio receive mode.
- Note that the backlight will automatically turn off when you switch to the radio time reception mode. This is a normal phenomenon. When you stop receiving radio time control, the backlight will automatically turn on.

Display backlight

If the device is powered by batteries, the display is not continuously lit. Touch the B1 button to light up the display for approx. 15 seconds. In the case of power supply from the socket, the display will always be lit, but you can adjust the intensity of the light by briefly touching button B2.

The device supports night mode, i.e. dimming the display backlight at night. To enter the settings, touch the B1 button for approx. 2 seconds. Use the B2 button to switch between the settings. The setting sequence is as follows (when the language is set to English):

NIGHT MODE -> BRIGHTNESS -> HR ENTRY TIME -> MIN ENTRY TIME -> HR EXIT TIME -> MIN EXIT TIME -> EXIT

When night mode is on, the icon will be displayed . When the time for night mode to start is reached, the backlight will automatically switch to the set brightness level. When the night mode ends, the brightness will be set to the original value. In night mode, the brightness can be switched to the maximum level for 15 seconds using the B1 button.

Note: The backlight is automatically switched off during the reception of the time control radio signal to avoid unwanted interference.

Producer: Solight Holding, s.r.o., Na Brně 1972, Hradec Králové 500 06

The product is covered by a Declaration of Conformity, which can be downloaded from www.solight.cz

