



KARCHER ST6 Automatic Watering Sensor Timer Instruction Manual

[Home](#) » [Karcher](#) » KARCHER ST6 Automatic Watering Sensor Timer Instruction Manual 

Contents

- [1 KARCHER ST6 Automatic Watering Sensor Timer](#)
- [2 General notes](#)
- [3 Function](#)
- [4 Basic functions of the enter keys](#)
- [5 Preparation/teaching sensor](#)
- [6 Documents / Resources](#)
 - [6.1 References](#)
- [7 Related Posts](#)

KÄRCHER

KARCHER ST6 Automatic Watering Sensor Timer



General notes

- These operating instructions are available as print variant (included in the scope of delivery) and as a more detailed web variant.
- Further information as a video tutorial via the QR code and at: www.kaercher.de

Function

The device controls the watering either depending on the degree of moisture of the ground or in a time-controlled manner. For this purpose, the sensors implanted in the ground issue the current soil moisture to the control unit via radio. Time-controlled operation is possible without a sensor. Depending on the scope of delivery, the device is equipped with 1 or 2 sensors / water outlets. The following values can be set on the control unit for the two independent water outlets:

- The tripping limit for the irrigation.
- Two different times for the time of irrigation.
- The irrigation duration.
- The irrigation delay.
- Manual irrigation.
- As soon as the degree of moisture falls below the tripping limit set on the control unit, the watering is started at the next time of watering.

- If the device was taught for time control, it waters independent of the degree of moisture of the ground at the preset times.
- In this case, the moisture tripping limit at the control unit can not be set.

Description of the display

1. Radio signal and signal strength
2. Battery status sensor
3. Tripping limit soil moisture
4. Measured soil moisture
5. Sensor 1 / water outlet 1
6. Irrigation / manual irrigation
7. Sensor 2 / water outlet 2*
8. Battery status control unit
9. Time / time of irrigation
10. Irrigation duration
11. Irrigation delay (ecologic function)
12. Break button and setting of the time
13. menu / esc button
14. OK button
15. Arrow keys

Connection to the public drinking water network

Please observe the requirements of EN 1717 when connecting this product to the drinking water network and contact your sanitation specialists if you have any questions.

Basic functions of the enter keys

- Flashing values are changed by means of the arrow keys.
- OK button completes an entry and switches to the next entry field. It also completes the entry in the last entry field and then switches into the automatic mode.
- esc button discards an entry and switches to the previous entry field or exits the entry at the first field and switches into the automatic mode.
- If no button is pressed for 30 seconds, the appliance returns to the automatic mode.
- In order to get to the automatic mode, at least 1 sensor must be used or the device must be taught for time control. Otherwise the water outlets for automatic watering are inactive.

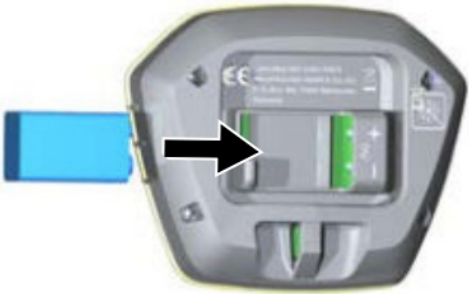

Initial startup control unit

- During the initial startup, it can individually be selected for each water outlet how it is to be operated:
- Sensor-controlled
- The sensor is taught during the 60-second countdown, i.e. the radio signal is detected automatically.
- Time-controlled






- The teaching process of the sensor is canceled with the ESC/menu button during the 60-second countdown. In this case, the moisture tripping limit at the control unit can not be set.
- Locked / inactive
- The 60-second countdown passes completely without the recognition of the sensor or the esc/menu button being pushed, then the water outlet is inactive. After the deactivation of the water outlet 1, the countdown for outlet 2 can be enabled with the OK button.

Setting the time upon initial start-up

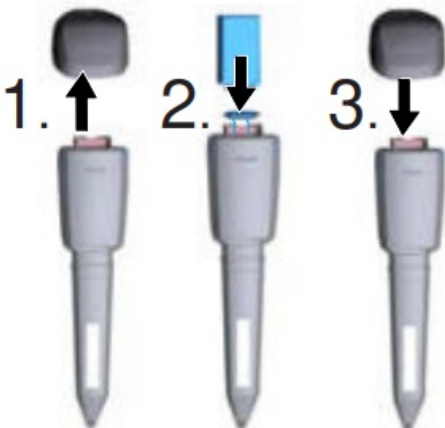


Preparation/teaching sensor

	<p>Insert the battery into the battery compartment in the correct position (observe +/- marking).</p>
	<p>As soon as the battery is inserted, the display, after a short self-test, changes directly into the settings mode for the current time. The hours of the time display are flashing.</p>

Setting the time upon initial start-up

	
Note: As soon as the battery is inserted, the time flashes automatically.	
	Set the hours by means of the arrow keys.
	Confirm with the OK button . <i>The minutes are flashing.</i>
	Set the minutes by means of the arrow keys.
	Confirm with the OK button . The time is set.

Preparation / teaching sensor





	<p>è Remove the sensor cap of the sensor.</p> <p>è Connect the battery with the battery clip. The connected battery is reinserted in the casing with the battery clip going in first.</p> <p>è Close the sensor by means of the sensor cap. Note: The battery is not included in the scope of delivery.</p>
	<p>n As soon as the contact of the radio signal is established, the symbol for the radio signal appears permanently. It is now guided through the setup sequence (preset value for moisture, times, etc.).</p> <p>n Sensor 1 was detected successfully.</p>
<p>n Note: The operating mode is specified and saved during the teaching process. A change of the operating mode (e.g. from sensor control to time control) is only possible by a new teaching process after a reset.</p>	
	<p>Prepare / teaching sensor 2*</p>
	<p>The setting process of sensor 2 starts automatically after the watering setting of water outlet 1. If the water outlet 1 remains inactive, teaching of the water outlet 2 must be enabled by pressing the OK button. The seconds countdown starts for water outlet 2. Teaching of sensor 2 is equivalent to sensor 1.</p>

Note:


- In order to change the operating mode of an outlet or to add a sensor, the teaching process must be restarted.








- A reset must be performed for this purpose. The setting process is restarted, beginning with sensor 1:
- Remove the batteries from both sensors and the control unit.
- Reinsert the battery in the control unit. As soon as the symbols appear on the display, press the **OK button** until the time on the display is flashing.
- Reset the time and start the teaching process of sensor 1, then of sensor





Setting the tripping limit for the irrigation

	
	<p>è Press the OK button repeatedly until the triangles of the degree of moisture display are flashing.</p>
	<p>è Set the desired degree of moisture by means of the arrow keys.</p>
	<p>è Confirm with the OK button.</p> <p>n The tripping limit is set.</p>





Setting the irrigation time

	
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	<p>è Press the OK button repeatedly until the first two digits on the watering display are flashing.</p>
	<p>è Set the hours by means of the arrow keys.</p>
	<p>è Confirm with the OK button.</p> <p><i>The minutes are flashing.</i></p>
	<p>è Set the minutes by means of the arrow keys.</p>
	<p>è Confirm with the OK button.</p> <p>n The first irrigation time is set.</p>
	<p>Note: If only one irrigation time is desired, do not select any settings for the second irrigation time. Thus, only one of the two irrigation times is activated.</p>
	<p><i>The first two digits for the second watering time are flashing.</i></p>







	<p>è Set the hours by means of the arrow keys.</p>
	<p>è Confirm with the OK button.</p> <p><i>The minutes are flashing.</i></p>
	<p>è Set the minutes by means of the arrow keys.</p>
	<p>è Confirm with the OK button.</p> <p>n The second irrigation time is set.</p>

Setting the irrigation duration





	
	<p>è Press the OK button repeatedly until the irrigation duration display is flashing.</p>
	<p>è Set the desired irrigation time in minutes using the arrow keys.</p>
	<p>è Confirm with the OK button.</p> <p>n The irrigation duration is set.</p>

Irrigation delay (eco!ogic function)


- with this function, watering can be delayed by 1 – 7 Example: If the tripping limit of the soil moisture is reached and a delay of 3 days is set, the system will wait 3 days before starting the next watering. This promotes the root development of the plant and safes water in case it rains within the delay days.

 5 d ON OFF	
	<p>è Press the OK button repeatedly until the irrigation delay display is flashing.</p>
	<p>è Press the right arrow key in order to set the delay / days.</p>
	<p>è Confirm with the OK button.</p> <p>n The number of days for the desired delay is activat- ed.</p>
	<p>The delay can be switched off by pressing the left arrow key (until no value is shown on the display anymore).</p>
 - d ON OFF	<p>The delay is deactivated.</p>







Selecting / changing sensor





	
	<p>è Switch into the settings mode using the esc/menu button.</p> <p><i>Sensor 1 is flashing.</i></p>
	<p>è Press the arrow key in order to select between sensor 1 and sensor 2.</p>
	<p>è Confirm with the OK button.</p> <p>n The settings for the selected sensor can now be made.</p>

Time-controlled watering – not sensor-controlled


	<p>è When teaching the sensor, push the esc/menu button within the 60-second countdown to activate the time-controlled watering of the relevant valve outlet.</p> <p>è Then continue with the entry of the watering time and watering duration.</p> <p>See operating instructions.</p>
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Irrigate manually




	
	<p>è Switch into the settings mode using the esc/menu button.</p>
	<p>è Press the arrow keys until the irrigation display is flashing.</p>
	<p>è Confirm with the OK button.</p> <p><i>The irrigation symbol is flashing.</i></p>
	<p>è Open or close valve 1 by means of the left arrow key, valve 2 by means of the right arrow key.</p>
	<p>è Terminate the manual watering by means of the OK button or esc/menu button. The valve is closed in the course of this and switches back into the display or automatic mode.</p>

	
	<p>è Hold the left arrow key down for at least 3 seconds in order to open the left valve manually. Depending on the scope of delivery, the same procedure with the right arrow key applies to open the right valve.</p> <p>n The valve is open.</p>
	<p>è Press the left/right arrow key briefly in order to close the opened valve or to open it again.</p> <p>If both valves are closed, the device automatically returns to the previous mode after 30 seconds.</p>
	<p>è Terminate the manual watering by means of the OK button or esc/menu button. The valve is closed and switches back into the automatic mode.</p>



Failure safety function

	<p>n If the valve unit loses contact to a sensor (no signal as, for example, the sensor battery is empty), the watering is time-controlled.</p> <p>Note</p> <p>ECO delay days are considered.</p> <p>Advantage: Guarantee of continuous watering, plants do not dry out.</p>
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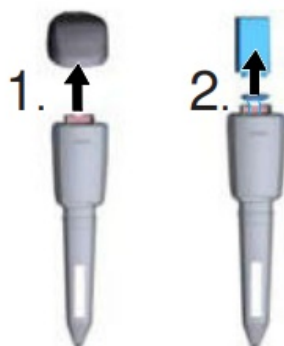
Changing the time

	
	<p>→ Hold down the 24 button or the pause button until the hour display flashes.</p> <p>→ Then proceed in accordance with Chapter "Setting time upon initial start-up".</p>
	<p>■ After setting the last OK button, the time is changed.</p>

24 button / pause button

	
	<p>è Press the 24 button or pause button.</p> <p>n The irrigation settings are deactivated for 24 hours.</p> <p>è If this button is pressed again, the current settings are re- activated.</p>

Performing a reset



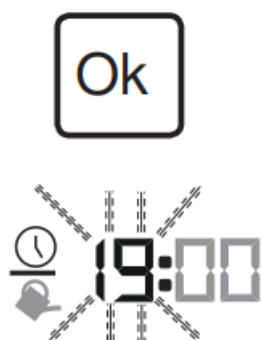
è Remove the sensor cap of the sensor.

è Remove the battery clip from the battery.

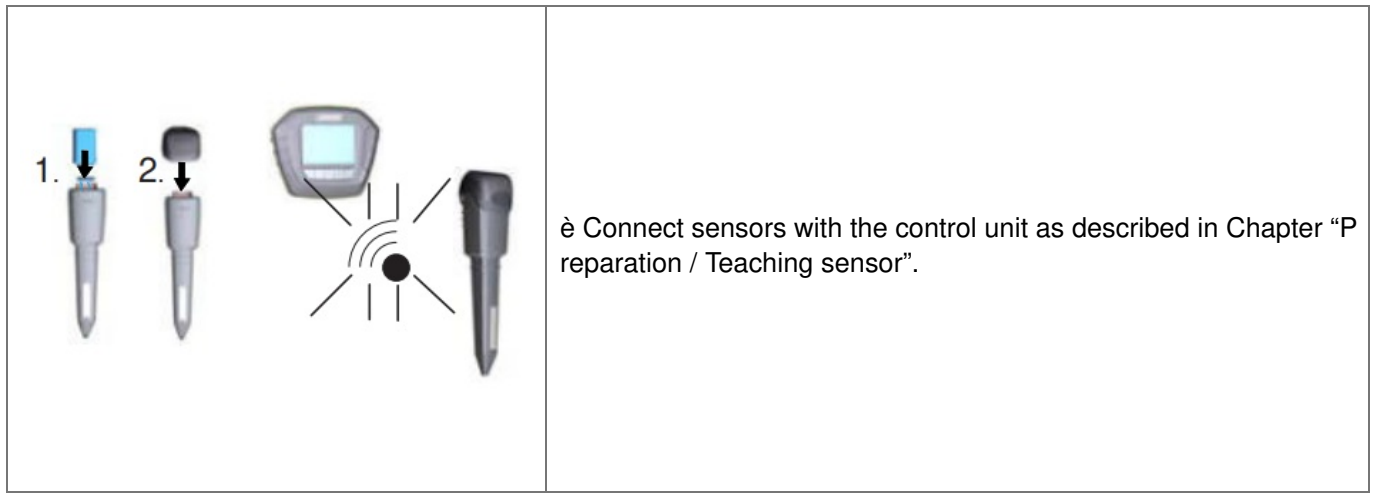
è Remove the battery from the battery compartment of the control unit.




è Insert the battery into the battery compartment in the correct position (+/- marking).



è Hold down the **OK button** until the hour settings are flashing in the display.



Documents / Resources

 <p><small>Sensor Timer ST6 ecologic Sensor Timer ST6 Duo ecologic</small></p> <p>KÄRCHER</p> <p>Automatic watering</p> <p>CE ENEC</p>	<p>KARCHER ST6 Automatic Watering Sensor Timer [pdf] Instruction Manual ST6, Automatic Watering Sensor Timer, Watering Sensor Timer, Automatic Sensor Timer, ST6, Sensor Timer</p>
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References

- [Dealer Search | Kärcher International](#)
- [Home Garden Warranty Registration Kärcher North America USA | Kärcher](#)
- [Reinigungsgeräte und Hochdruckreiniger | Kärcher](#)