

MAX!

Window Sensor



Scope of delivery

Quantity	Item
1x	MAX! Window Sensor (electronic and magnet unit)
2x	Cap (white/brown)
6x	Spacers
2x	Adhesive stripes
6x	Screws
2x	1.5 V LR03/micro/AAA batteries
3x	Brief instruction in German/English, French/ Dutch and Polish/Italian

Table of contents

1	Information about this manual	4
2	Safety instructions.....	4
3	Function.....	5
4	Device overview	7
5	Start-up	8
6	Teaching-in	15
7	Restore factory settings	18
8	Flashing sequences and transmission behaviour.	19
9	Maintenance and cleaning	19
10	Information about radio operation	20
11	Technical specifications	21

Documentation © 2014 eQ-3 AG, Deutschland
All rights reserved.
Translation of the original version in German.
Version 1.1 (11/2016)

1 INFORMATION ABOUT THIS MANUAL

Read this manual carefully before starting to use the device. Keep the manual so you can refer to it at a later date if you need to. If you hand over the device to other persons for use, please hand over the operating manual as well.

Symbols used:



Attention!

This indicates a hazard.



Note.

This section contains important additional information.

2 SAFETY INSTRUCTIONS



The device is not a toy; do not allow children to play with it. Do not leave packaging material lying around, as it can be dangerous in the hands of a child.



Do not open the device: it does not contain any components that need to be serviced by the user. In the event of an error, please return the device to the service department.



The device may only be operated indoors and must be protected from the effects of damp and dust, as well as solar or heat radiation.



Using the device for any purpose other than that described in this operating manual does not fall within the scope of intended use and shall invalidate any warranty or liability. This also applies to any conversion or modification work. The device is intended for private use only.

3 FUNCTION

The MAX! Window Sensor signals when windows or doors are opened and closed. To save energy, the device ensures that MAX! Radiator Thermostats automatically reduce the temperature when a window or door is open and increase it again when the window or door is closed. The reduction temperature can be set separately for each room via the MAX! software.

The MAX! Window Sensor can be used in the following solutions:



MAX! House Solution

This is the solution for the entire house. With a MAX! Cube, all settings of connected devices in the house can comfortably be made via the MAX! software. By using the MAX! Cube, several MAX! Radiator solutions and MAX! Room solutions can be connected to a MAX! House solution in a new installation.



MAX! Room solution

In the room solution, the settings of all connected devices in your room can comfortably be made via the MAX! Wall Thermostat+. Up to 8 MAX! Radiator Thermostats+ and 8 MAX! Window Sensors can be connected and controlled via the MAX! Wall Thermostat+. With a MAX! Cube, the solution can be extended to a House solution.



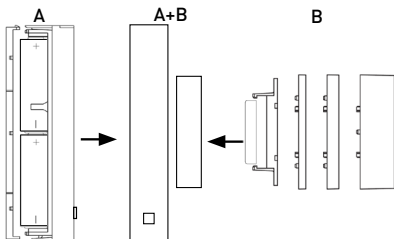
MAX! Radiator solution

With the MAX! Radiator solution you can easily start using the MAX! system. The ambient temperature within a room can be flexibly controlled and regulated with up to 2 MAX! Radiator Thermostats+ and 3 MAX! Window Sensors. Configuration is performed directly on the MAX! Radiator Thermostat+.

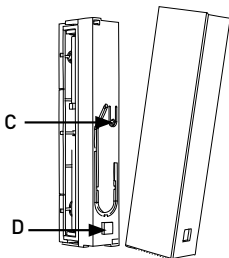
With a MAX! Wall Thermostat+, the solution can be extended to a room solution, with a MAX! Cube it can be extended to a House solution.

4 DEVICE OVERVIEW

The **MAX! Window Sensor (A+B)** consists of a large electronic unit (**A**) and a small magnet (**B**):



The device is supplied with spacers and caps in white and brown.

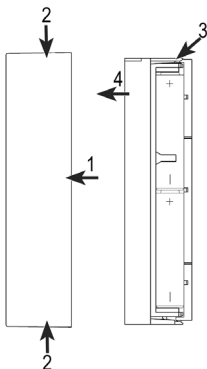


- (C) Teach-in button
- (D) Device LED

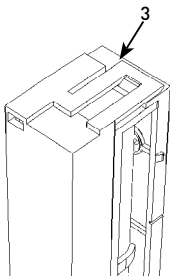
5 START-UP

5.1 INSERTING (REPLACING) BATTERIES

The MAX! Window Sensor is operated with two LR03/micro/AAA batteries.



- Remove the cap of the electronic unit (A) by pulling it forward and off the device (1). To release the cap, squeeze it gently from above and below with your thumb and index finger (2).
- Carefully lift the release clip (3) from the side.



- Pull the electronic unit (A) forward (4) and off the bracket.
- After removing the old batteries, please wait approx. 60 seconds.
- Insert two new LR03/micro/AAA batteries in the battery compartment (making sure that you insert them the right way round).
- Place the electronic unit (A) back onto the bracket, allowing it to latch into place.
- Put the cap back to the electronic unit (A). Make sure that the LED opening on the cover is positioned over the LED (D) on the electronic unit.



Never recharge standard batteries. Do not throw the batteries into a fire. Do not expose batteries to excessive heat. Do not short-circuit batteries. Doing so will present a risk of explosion.

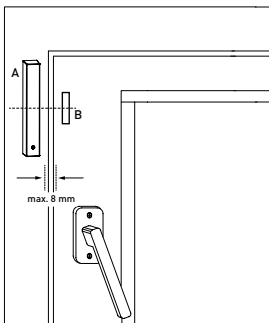


Used batteries should not be disposed of with regular domestic waste! Instead, take them to your local battery disposal point.

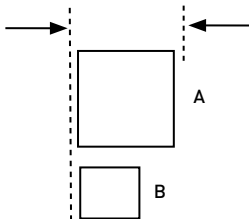
5.2 MOUNTING


The MAX! Window Sensor consists of two elements: an electronic unit (A) and a magnet (B) (see sec. „4 Device overview“ on page 7). The electronic unit (A) must be mounted on the frame and the magnet (B) on the window.

- First select the window that is frequently used for ventilation and which the MAX! Window Sensor is to be attached to.
- The magnet (B) can be mounted on either side of the electronic unit (A). Installation must be in parallel with a maximum spacing of 8 mm.
- The magnet (B) must be centre-aligned with the electronic unit (A).




The magnet (B) and electronic unit (A) must be attached at the same level (or as close to the same level as possible) within the designated area. You might need to use the spacers supplied for the magnets (B) to do this.



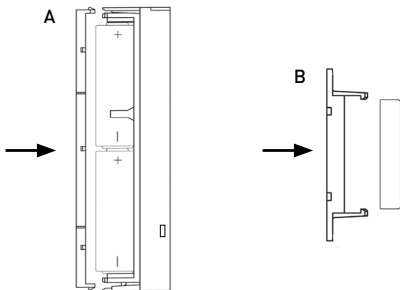
-  The window sensor can be attached either vertically or horizontally and can be positioned on the side or at the top/bottom of the window.

Each of the elements can be fastened in two ways:

Adhesive strip mounting:

-  The surface on which you are mounting the element must be clean and free of grease.

- Stick the adhesive strips supplied on the back of the electronic unit (A) and on the back of the bracket for the magnet (B).

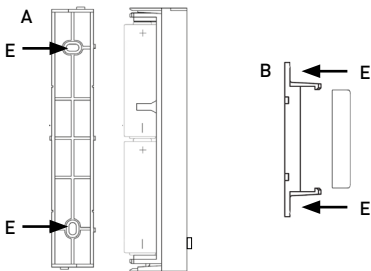


- Then press the electronic unit (A) and the bracket onto the frame and window.

Screw mounting:

Screw fastening damages the window frame. For those living in rented accommodation, this could lead to a landlord making claim for compensation or holding back a tenant's deposit.

- Use a pen to mark the bore hole positions (E) of the electronic unit (A) and the magnet holder (B) on the window frame and casement.



- If you are working with a hard surface, you should pre-drill the holes marked (E) using a 1.5 mm drill.
- Use the countersunk head screws supplied to fasten the wall brackets for the electronic unit (A) and magnet (B).



If you are using the 14.5 mm high spacer, you must first fasten it with two 2.2 x 16 mm screws and then attach the magnet unit (B) to it with another two screws. The flatter spacers are simply fastened together with the magnet using two 2.2 x 16 mm screws.

- Once you have fastened the wall bracket for the magnet (B), insert the magnet.
- Then place the cap on the magnet.
- Once you have fastened the wall bracket for the electronic unit (A), attach the electronic unit.



Teach-in the MAX! Window Sensor before placing the cap on the electronic unit (A) (see sec. „6 Teaching-in“ on page 15).

- After teaching-in the MAX! Window Sensor, complete the mounting procedure by placing the cap on the electronic unit (A). White and brown caps are supplied with the device.

6 TEACHING-IN

In order to be able to use the MAX! Window Sensor in your installation, you must teach it in to your system first. You can use the MAX! Window Sensor in connection **with** the MAX! Cube (House solution) as well as **without** MAX! Cube (Room and Radiator solution).

6.1 TEACHING-IN VIA MAX! CUBE (HOUSE SOLUTION)

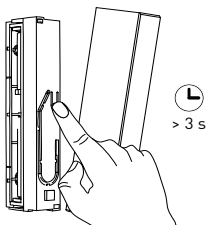


In the MAX! House solution all settings and configurations can be made via the **MAX! software**. To teach-in the device to the MAX! Cube, proceed as follows:

- Put the MAX! Cube into teach-in mode. Start the local MAX! software and click on "New device".

The screenshot displays the MAX! software interface. At the top, there is a navigation bar with 'Logout' and a user icon on the left, and the 'MAX!' logo on the right. Below the navigation bar, there are three menu items: 'NEW DEVICE' (circled in red), 'SETTINGS', and 'HELP'. The main area shows a 'House' control panel with three modes: 'ECO', 'AUTO', and 'COMFORT'. Below this, there are five room control cards: 'Bedroom' (28.5°C), 'Living room' (17.0°C), 'Bathroom' (ON), 'Kitchen' (25.0°C), and 'Child's room' (17.0°C). Each room card has a 'Mode' selector with 'AUTO' and 'MANU' options, and a small icon for 'Attention'.

- To activate teach-in mode of the MAX! Window Sensor, press and hold down the teach-in button (C) on the electronic unit (A) for at least 3 s. The device LED starts to flash.



- Click on "Next" in the software to give the device a name and assign it to a room.
- Successful teaching-in of the MAX! Window Sensor is confirmed by the LED lighting up once.
- Place the cap on the electronic unit (A).

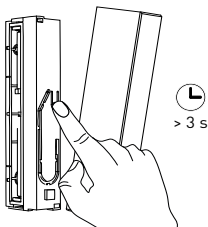
6.2 TEACHING-IN WITHOUT CUBE (ROOM/RADIATOR SOLUTION)

You can teach-in the MAX! Window Sensor directly to the MAX! Wall Thermostat⁺ (Room solution) or the MAX! Radiator Thermostat⁺ (Radiator solution).

- Put the device to be taught-in (e.g. MAX! Wall Thermostat⁺) into teach-in mode (according to the corre-

sponding operating manual).

- To activate teach-in mode of the MAX! Window Sensor, press and hold down the teach-in button (C) on the electronic unit (A) for at least 3 s. The device LED starts to flash.



- Successful teaching-in of the MAX! Window Sensor is confirmed by the LED lighting up once.
- Place the cap on the electronic unit (A).



To initialise the window sensor, once open and close the window to which the MAX! Window Sensor is mounted.



The window sensor can be taught-in to one MAX! Cube or one MAX! Wall Thermostat⁺/MAX! Radiator Thermostat⁺ only.

7 RESTORE FACTORY SETTINGS

The factory settings of the MAX! Window Sensor can be restored manually. Restoring the factory settings deletes all settings and information about taught-in devices.



Before restoring the factory settings of the MAX! Window Sensor, first delete the device from the MAX! software in case you use it in connection with a MAX! Cube.

- First remove the batteries from the electronic unit (A).
- Wait 60 seconds.
- Hold down the teach-in button (C) and at the same time re-insert the batteries.
- Press and hold down the teach-in button (C) until the LED (D) starts to flash.
- Release the teach-in button (C); the factory settings are restored.

8 FLASHING SEQUENCES AND TRANSMISSION BEHAVIOUR

The LED's flashing sequences have different meanings:

Flashing sequence	Meaning
1x flash	Window open/closed, radio command sent successfully
2x flashes	DutyCycle limit reached. The device will communicate again after max. one hour.
3x flashes	Error message: wireless command not sent successfully

9 MAINTENANCE AND CLEANING



The product does not require any maintenance. Enlist the help of an expert to carry out any repairs. Clean the product using a soft, lint-free cloth that is clean and dry. You may dampen the cloth a little with lukewarm water in order to remove more stubborn marks. Do not use any detergents containing solvents, as they could corrode the plastic housing and label.

10 INFORMATION ABOUT RADIO OPERATION

Radio transmission is performed on a non-exclusive transmission path, which means that there is a possibility of interference occurring. Interference can also be caused by switching operations, electrical motors or defective electrical devices.



The range of transmission within buildings can differ greatly from that available in the open air. Besides the transmitting power and the reception characteristics of the receiver, environmental factors such as humidity in the vicinity have an important role to play, as do on-site structural/screening conditions.

eQ-3 Entwicklung GmbH hereby declares that this device complies with the essential requirements and other relevant regulations of Directive 1999/5/EC. You can find the full declaration of conformity at www.eQ-3.de.

11 TECHNICAL SPECIFICATIONS

Device short description:	BC-SC-Rd-WM-2
Supply voltage:	2x 1.5 V LR03/micro/AAA
Current consumption:	50 mA (max.)
Battery life:	5 years (typ.)
Degree of protection:	IP20
Ambient temperature:	0 to 50 °C
Dimensions (W x H x D):	
Electronic unit:	18.5 x 103.5 x 24.5 mm
Magnet:	12 x 48 x 12 mm
Weight:	52 g (incl. battery)
Radio frequency:	868.3 MHz
Receiver category:	SRD category 2
Typ. open area RF range:	> 100 m
Duty cycle:	< 1 % per h

Subject to technical changes.



Do not dispose of the device with regular domestic waste.

Electronic equipment must be disposed of at local collection points for waste electronic equipment in compliance with the Waste Electrical and Electronic Equipment Directive.



The CE sign is a free trading sign addressed exclusively to the authorities and does not include any warranty of any properties.



For technical support, please contact your specialist dealer.



Bevollmächtigter des Herstellers:
Manufacturer's authorised representative:

eQ-3

eQ-3 AG
Maiburger Straße 29
26789 Leer / GERMANY
www.eQ-3.de