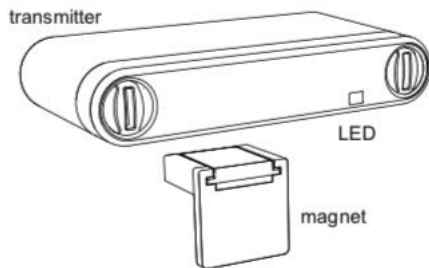# Qbus

# Qbus Wireless door and window contact (QWE MC01/white)
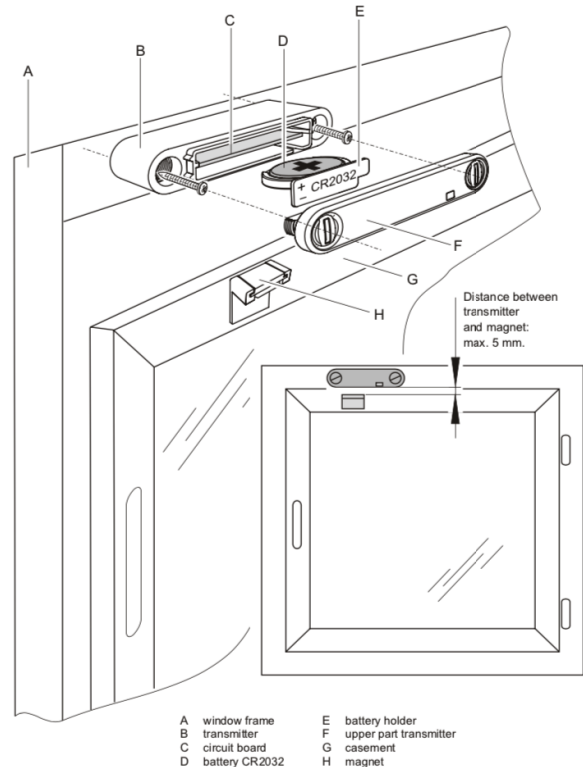


## 1. Product description

You can use the door and window contact for monitoring the status of windows, doors and gates. With each status change, a radio telegram is transmitted and indicated by the flashing 2-colour LED.

When the contact is opened or closed, an EasyWave code is transmitted to the QWI/EW module that is configured in System Manager III.

The QWE MC01/white has a built-in battery monitor. As soon as the battery capacity becomes weak, a 'Battery Low' telegram is transmitted to the configured QWI/EW module, which it passes on to the Qbus system, allowing you to consult it via the Qbus System Manager III or via a set message report (Email or SMS) via Qbus Cloud or Ubie Cloud.

## 2. Commissioning

1. Unscrew the top part of the module to open it.
2. Place the battery in the battery holder with the positive pole facing upwards. Slide the battery holder between the battery clip and the PCB in the module.
3. Follow the instructions in System Manager III to teach the module to the QWI/EW module.
4. Fasten the module to the window, door or gate frame with the screws or sticker pads provided. **Attention!** Make sure that the wireless connection cannot be disrupted. Do not mount the module in a distribution box, metal housing, near metal objects or on or near the floor.
5. Stick the magnetic tab onto the moving part of the window, the door or gate so that the magnet is as close as possible to the location indicated on the transmitter. The distance between the magnet and the transmitter may not exceed 5 mm.



| | |
|---|---|
| A window frame | E battery holder |
| B transmitter | F upper part transmitter |
| C circuit board | G casement |
| D battery CR2032 | H magnet |

## 3. Check battery

The module verifies the battery voltage:

- Each time the contact status changes (transmission of the new status)
- At least once every 24 hours after sending the latest status.

As soon as the battery status is found to be weak, a 'Battery Low' signal is transmitted at least once every four hours.

Once the battery is empty, the red LED will blink briefly three times at 20-second intervals and the voltage-too-low telegram will be transmitted automatically. It is recommended to replace the battery now. (See 'Replacing the battery')

If the voltage drops further, the module will switch itself off and no more status changes will be transmitted.

## 4. Replacing the battery

1. Unscrew the top part of the transmitter to open it.
2. Pull the battery holder old of the slot and replace the battery. Only use batteries of type CR2032. **Make sure that the positive pole is visible at the top!**
3. Replace the holder and screw back the top part of the transmitter to close it.

**Please note:** The module retains its link with the QWI/EW, you don't need to take more steps for this.

## 5. Solving problems

If the receiver fails to respond to this module:

- Check the battery status.
- Check that the wireless connection in the installation between this module and the QWI/EW is not disrupted.
- Check the configuration of the QWI/EW and whether the link with this module is still active.
- Check that other wireless devices with the same frequency, or that work at almost the same frequency, are not disrupting this product's operation.

## 6. Safety rules

Read the entire manual before installing the module and activating the system.

### WARNING

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- The device must be mounted and commissioned by an authorised electrician in accordance with the country-specific regulations.
- The device may not be opened, except as described for replacing the battery. The guarantee provisions will be void if the module has been opened.
- Keep the batteries away from children.

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## 7. Technical data

### General specifications

- Power supply: 1x 3V battery, CR2032
- Current consumption: 1.6 µA
- Radiated power: 0.07 mW
- Modulation coding: FSK
- Wireless protocol: EasyWave A/B
- Range: free field: 150 m; buildings: 30 m
- Ambient temperature: -20°C to 60°C
- Maximum humidity: 93%, no condensation
- Maximum installation height: 2,000 metres

### Physical specifications

- Housing: plastic, self-extinguishing in accordance with UL94-V0
- Protection grade: IP20, EN60529
- Transmitter dimensions: 65 mm x 12 mm x 28 mm
- Magnet dimensions: 18 mm x 18 mm x 13 mm
- Transmitter weight: approx. 20.6 g
- Magnet weight: approx. 2.2 g

### CE marking

- In accordance with EMC and low voltage regulations. The module corresponds with EN 61000-4-2 and 50090-2.

## 8. Guarantee provisions

Period of guarantee: Two years from date of delivery. The guarantee does not apply if the module is opened!
Any faulty modules should be sent postage-free with a description of the defect to our customer service:

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