

Brunata
ClickOn
with radio telegramme
version 1 og 2

item no. 19-7930 A Ver. 1
item no. 19-7931 A Ver. 2
item no. 19-7932 A Ver. 1 (humidity protected)
item no. 19-7933 A Ver. 2 (humidity protected)

Installation Guide
edition 1.2
UK-QB 101470/22.05.2016

Brunata a/s is a Danish owned company. We have more than 90 years of experience in delivering heat cost allocators, consumption accounts and meter services. Today meters are often remotely read with access to the internet. We have a quality control system fulfilling DS/EN ISO 9001 and 14001.

Brunata



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1. Introduction

Check the system in which the Brunata ClickOn is installed. If it is a ver1 system, only ClickOn with ver1 protocol can be installed. You can **not** mix the versions of ClickOn in a system. The ClickOn can only be installed on a mechanical water meter.



Brunata ClickOn ver1 has part number 19-7930-A and is marked Ver1

Brunata ClickOn ver2 has part number 19-7931-A and is marked Ver2

2. Installation list

In the installation list the following is entered:

- The ID number of the ClickOn (after the dash) is entered in the column 'Remarks'
- The type of ClickOn is written in the column 'Meter type' (here the type is 83)
- The mechanical water meter's number (red numbers are entered as decimal points)
- The value of the mechanical water meter's counter
- Where the water meter is placed
- Whether it is a hot or cold water tap
- Flat number





3. Installation

Before Brunata ClickOn can be installed it is necessary to remove the cover plate from the mechanical water meter.

Notice that there may not be flow on the system while Brunata ClickOn is installed.

4. Status diode



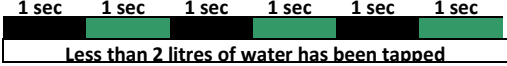
When ClickOn is clicked on, the module is held a bit askew so one corner of the radio transmitter module is clicked on first. Then the rest of the module is tilted down and clicked on.

Status diode	Description
	<p>Installation: The status diode flashes 4 times. Every flash and every pause has a duration of 1 sec.</p>
	<p>2 litres of water registered: Every time the ClickOn is installed on a mechanical water meter, the ClickOn can be tested for correct metering of the consumption. The status diode starts flashing 8 times a second when 2 litres of water have run through the water meter.</p>

- Check if the status diode flashes 4 times. See chart under ‘Installation’.
- If it is possible to tap some water, the status diode will start flashing when **2 litres** of water are registered by the water meter. The status diode will turn off after **10 litres** have run through the water meter. See the chart under **2 litres of water registered**.
- You can turn off the water when 2 litres have run through the water meter and let the status diode flash. When the water meter has registered 10 litres of water, the status diode will turn off.
- Within 10 minutes, the ClickOn will send 5 telegrams and the status diode will flash every time a telegram is sent.

ClickOn will go through the above mentioned routine every time a ClickOn is installed on a water meter.

5. Error detection

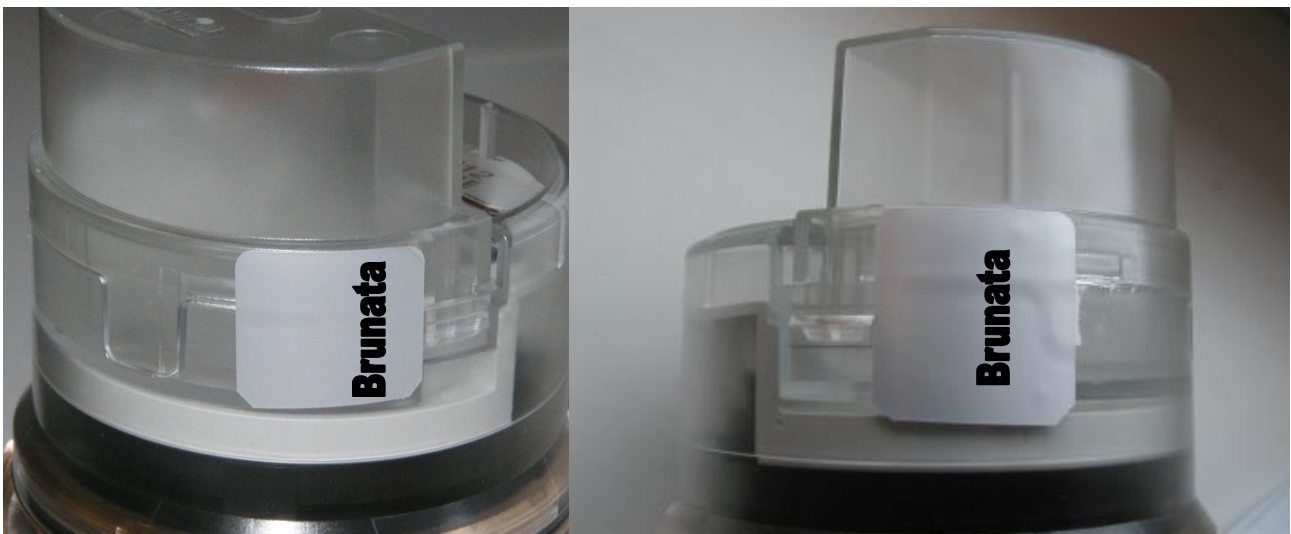
Status diode – Error detection	Description
	<p>Installation: If the status diode does not flash 4 times ClickOn is not mounted on the meter.</p>
	<p>Test during installation: When 2 litres of water have been tapped, the status diode starts flashing. If long pauses and short flashes occur, there is an error, i.e. ClickOn has uninstalled itself in error.</p>
	<p>Test during installation: The status diode starts flashes before 2 litres of water have been tapped. Every flash and every pause has a duration of 1 sec., i.e. ClickOn has uninstalled itself in error.</p>

- If the status diode does not flash 4 times during installation, an error may have occurred. In order to check the ClickOn, it is necessary to turn on the water to shift the angle of the litre indicator. Then check ClickOn for correct installation procedure, see the section Status diode.
- If the status diode is not flashing when more than 2 litres are tapped, there is an error in the ClickOn.
- If there is flow and the status diode lights up for 4 sec., turns off for a while and then lights up again for 4 sec., there is an error in the ClickOn.
- If the status diode does not stop flashing after 10 litres, there is an error in the ClickOn.

In case the above occurs, ClickOn must be discarded and placed in a box marked 'deviant products' and treated in accordance with QP73 Deviant products.

6. Mounting of ClickOn

After the ClickOn is clicked on the mechanical water meter and verified, two (2) seals (item no. 19-7896-C) are placed on both the ClickOn and the mechanical water meter, as shown below.



7. Dismantling

When ClickOn is dismantled, one corner of the module is first clicked off and then the rest of the ClickOn is pulled off the mechanical water meter.

8. Memory

Brunata ClickOn sends data from the three latest 14 day periods (in litres).

Readings from the 1st and 15th of every month are stored in the memory of ClickOn. Altogether, data for 52 log periods are stored in the memory, corresponding to data for 26 months.

9. Telegramme

The following data are sent for each period:

- Meter number
- Current period's water consumption

All water consumption is stored in litres with a resolution of 1.0 l.

The annual consumption is stored in the memory for 6 years.

10. Frequency of transmission

Brunata ClickOn ver1 sends a telegram every 3rd hour.

Brunata ClickOn ver2 sends a telegram every 2nd minute.

11. Technical support

If you have any questions, please contact Brunata Technical department:

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