

Brunata

ClickOnETJ⁺

Installation Guide

Edition 1.1

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*Brunata a/s is a Danish owned company.
We have more than 90 years of experience
within developing and producing meters,
heat cost allocators, consumption accounts,
meter services and latest substations.
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 ClickOnETJ⁺ is installed. If it is a ver1 system, only ClickOnETJ⁺ with ver1 protocol can be installed. You can **not** mix the versions of ClickOnETJ⁺ in a system. The ClickOnETJ⁺ can only be installed on an ETJ mechanical water meter.



Brunata ClickOnETJ⁺ ver1 has part number 19-7930-A and is marked Ver1
Brunata ClickOnETJ⁺ 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 ClickOnETJ⁺ (after the dash) is entered in the column 'Remarks'
- The type of ClickOnETJ⁺ 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 ClickOnETJ⁺ 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 ClickOnETJ⁺ is installed.

4. Status diode

When ClickOnETJ⁺ 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. Check if the status diode flashes 4 times. See chart below 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 ETJ water meter. The status diode will turn off after **10 litres** have run through the water meter.

| Status diode | Description |
|--|--|
|  | Installation: The status diode flashes 4 times. Every flash and every pause has a duration of 1 sec. |
|  | 2 litres of water registered: Every time the ClickOnETJ ⁺ is installed on a mechanical water meter, the ClickOnETJ ⁺ 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. |



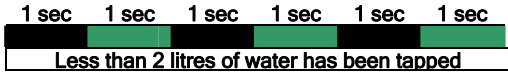
See the chart under **2 litres of water registered**.

- 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 ClickOnETJ⁺ will send 5 telegrams and the status diode will flash every time a telegram is sent.

ClickOnETJ⁺ will go through the above mentioned routine every time a ClickOnETJ⁺ is installed on an ETJ water meter.

5. Error detection

- If the status diode does not flash 4 times when installing, an error may have occurred. In order to check the ClickOnETJ⁺, it is necessary to turn on the water to shift the angle of the litre indicator. Then check ClickOnETJ⁺ for correct installation procedure, see the section Status diode

| Status diode - Error detection | Description |
|---|--|
|  | <p>Installation: If the status diode does not flash 4 times ClickOnETJ⁺ is not mounted on the ETJ 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. ClickOnETJ⁺ 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. ClickOnETJ⁺ has uninstalled itself in error.</p> |

- If the status diode is not flashing when more than 2 litres are tapped, there is an error in the ClickOnETJ⁺.
- 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 ClickOnETJ⁺.
- If the status diode does not stop flashing after 10 litres, there is an error in the ClickOnETJ⁺.

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

6. Mounting of ClickOnETJ+

After the ClickOnETJ⁺ is clicked on the mechanical water meter and verified, two (2) seals (item no. 19-7896-C) are placed on both the ClickOnETJ⁺ and the mechanical water meter, as shown below. The seals are placed right at the edge before the indent and all the way to the top edge so that when the ClickOnETJ⁺ is removed from the mechanical water meter, the seals will be broken.



7. Dismantling

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

8. Memory

Brunata ClickOnETJ⁺ 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 ClickOnETJ⁺. Altogether, data for 52 log periods are stored in the memory, corresponding to data for 26 months.

9. Telegram

The following data are sent for each period:

- Current period's water consumption
- Previous periods of water consumption (calendar year)
- Water consumption of the latest 14 day periods
- Log of how many times the module has been dismantled
- Status flag indicating whether the module is mounted/dismounted

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 ETJ⁺ ver1 sends a telegram every 3rd hour.

Brunata ClickOn ETJ⁺ ver2 sends a telegram every 2nd minute.

11. Technical support

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

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