

► FuturaGeysir+

Electronic hot-water cost allocator

- Correct measuring of the amount and temperature of used hot-water. If the used hot-water only is tepid the record will equivalently be lower.
- Easy-to-read display showing "Units this year" and "Units last year" alongside with easy-to-understand icons.
- Replaceable environmentally compatible battery. After 10 years of use the battery can be replaced, you do not need to change the allocator.
- FuturaGeysir+ is supplied with radio based remote reading as an optional choice.

Hot-water may not always have the same temperature throughout a building, sometimes you have to let the hot-water run for some time before it is warm; and some apartments may never get hot-water with the same high temperature as the apartments first on the hot-water installation.

In order to get a fair share of the heating expense, you have two demands to the recording:

- Recording must consider the amount of used hot-water.
- Recording must consider the temperature of used hot-water.

FuturaGeysir+ considers both demands. And if the used hot-water only is tepid the record will equivalently be lower.

FuturaGeysir+ is a hot-water cost allocator, and it is applied for recording the hot-water consumption in buildings where a number of consumers have to share the heating expenses. On basis of the recording of each flat's hot-water consumption the heating expense is calculated and settled as a fair, consumption-dependent share of the total heating expenses of the building. This is why each tap must have an allocator installed. Depending on the construction of the hot-water installation you might just need one allocator per apartment.

With or without radio transmitter

FuturaGeysir+ is supplied with a radio transmitter allowing remote reading as standard. When the allocator is read remotely, the full development of the measured temperatures can be seen. However, the allocator can also be supplied without radio transmitter. In that case, it is read by hand terminal, typically once a year.



Data stored in the memory

Readings for the 1st and 15th of every month are stored in the allocator's memory. Altogether, data are stored for 52 log periods, corresponding to data for 26 months. The following data are stored for each period:

- Current hot-water consumption.
- Calorimeter temperature.
- Ambient temperature.

All temperatures are stored in Kelvin with a resolution of 0.1K.

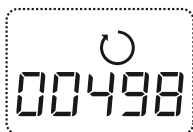
Brunata is a 100 % Danish owned company. We have more than 90 years of experience within developing and producing heat cost allocators and heating accounts. Brunata a/s has implemented a quality system in accordance with EN ISO 9001. Please contact us for further information on our products.

Easy-to-read display

FuturaGeysir+ is easy to read and it is not necessary to press any buttons. FuturaGeysir+ shows the different recordings by turns alongside easy-to-understand icons.

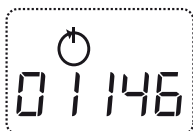
Units this year

☺ The hot-water consumption is measured in units, and accumulated in a counter and shown as "consumption this year" on the allocator's display. On the first day of a new hot-water consumption year the measurement of "consumption this year" automatically starts at zero.



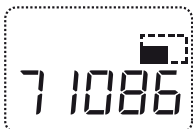
Units last year

⌚ Last year's hot-water consumption is read precisely at terminal date of the hot-water consumption year. The reading is stored in a counter unit and shown as "consumption last year" (as illustrated on the right). Thus the consumers can follow their hot-water consumption at all time and compare it with the preceding year's consumption. The last 10 years of consumption are stored in allocators internal memory.



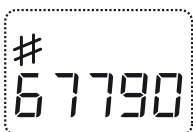
Control figure

The allocator is in addition equipped with a control figure which provides an extra security for correct reading of the consumption.



Allocator number

Each allocator has a unique number. Therefore will Brunata always be able to find details about consumption, location of the installation etc.



Environmental with long life

FuturaGeysir+ has longevity because of the replaceable lithium battery.

FuturaGeysir+ is developed for the future

FuturaGeysir+ is supplied with a radio transmitter module for remote reading, which means that the residents will not be disturbed during reading of the allocator.

Technical data

Operating principle:

FuturaGeysir+ is an electronic hot-water consumption allocator with 2-sensor measurement. One sensor records the temperature of the calorimeter and the other sensor records the room temperature.

Application area:

Recording the hot-water consumption.

Criteria for recording of consumption:

$t_1 - t_2 > 1,5 \text{ }^\circ\text{C}$

$t_{\text{minimum}} = 0 \text{ }^\circ\text{C}$

$t_{\text{calorimeter}}$

t_{ambient}

Reads also correct at low temperatures.

Range of measurement $0 \text{ }^\circ\text{C} - 125 \text{ }^\circ\text{C}$.

Range of measurement $0 \text{ }^\circ\text{C} - 125 \text{ }^\circ\text{C}$.

Display:

Transmission frequency

Brunata FuturaGeysir+ sends a telegram every 2nd - 4th hour.

Brunata FuturaGeysir+ ver2 sends a telegram every 2nd minute.

Protocol

Brunata FuturaGeysir+ use BrunataNet protocol
Brunata FuturaGeysir+ ver2 use BrunataNet ver2 protocol

Icons showing:

- ☺ "Units",
- ⌚ "Units last year",
- "Scale" and
- # "Allocator no."

Degree of protection of enclosures:

IP42

Memory:

Values for the 1st and 15th of every month are stored in the memory (hot-water consumption, calorimeter temperature and average room temperature), the cut-off date for heating accounts, dated log of operation conditions and error conditions, statistic of operation conditions (function models) and annual consumption for the past ten years.

Measures and weight:

FuturaGeysir+ is 131 x 39 x 19 mm and weighs approx. 65 g.

Battery:

The battery is replaceable. All allocators are supplied with batteries for 10 years' normal use (+ additional one year for replacement of the batteries).