

## ► Brunata Futura Signal+

Brunata Futura Signal+ is a pulse counter, which is used for collecting meter signals from consumption meters with pulse output, such as water meters, electricity meters and heat cost allocators.

Brunata Futura Signal+ is used for transfer of data to the BrunataNet system as part of the total registration of consumption in a building. The network also ensures an early warning in cases of abnormal consumption or error conditions.

### Characteristics

- Collects signals from all types of meters with pulse output
- Ensures correct data when residents move in or out due to the term and log functions
- Can be supplied pre-programmed
- Can be supplied moisture proof
- Supplied with replaceable lithium battery, so that the entire meter does not need replacing when the battery is exhausted
- Easy to install and read
- Easy-to-read display with easy-to-understand icons

### Components

Brunata Futura Signal+ consists of two main components:

- A cabinet containing the pulse counting device itself (supplied with a 3 metre cable)
- A connection box for connecting the cables from the consumption meters

### Installation

After installation of the cabinet and connection box, the cable can be shortened to the required



length. This allows flexible and presentable installation.

### Stand-alone remote counter

For inaccessible meters, Brunata Futura Signal+ can be used as a stand-alone remote counter. A handheld computer is used for safe and quick reading.

### Programming

Brunata Futura Signal+ must be programmed to match the connected consumption meters. It is normally programmed during installation using a hand terminal, but pre-programmed pulse counters are also available.

### Data stored in the memory

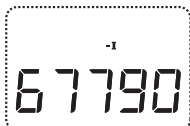
Values for the 1st and 15th of every month are stored in the meter's memory. In total, data for 52 log periods are stored, corresponding to data for 26 months.

*Brunata is a 100% Danish owned company. We have more than 90 years of experience within developing and producing heat cost allocators, heating accounts and meter service. We have a quality control system fulfilling DSIEN ISO 9001 and 14001. Please contact us if you have any questions or would like further information.*

## Easy-to-read display

Brunata Futura Signal+ is easy to read and it is not necessary to press any buttons. Brunata Futura Signal+ displays the different readings in turn together with easy-to-understand icons. The display alternates between the meter's channel number and consumption of the connected meters (max. 4 channels, ver1):

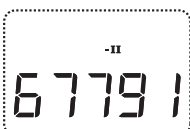
Channel 1  
Meter no.



Channel 1  
Consumption



Channel 2  
Meter no.



Channel 2  
Consumption



Channel 3  
Meter no.



Channel 3  
Consumption



Channel 4  
Meter no.



Channel 4  
Consumption



## Environment-friendly with long life

Brunata Futura Signal+ is supplied with a replaceable lithium battery. As the meter can be programmed to different transmission frequencies, the battery life varies. The more telegrams sent, the more power is required (cf. transmission frequency).

## Technical data

**Operating principle** Collecting signals from several consumption meters, typically water meters, electricity meters, heat cost allocators etc.

### Channels

Ver2: 3 channels  
Ver1: 4 channels

### Display

Type: LCD, 25 mm / 16 mm  
No. of digits: 5 digits  
Decimals: 0, 1 or 2  
Information: Alternately consumption and meter no.

### Transmitter

Frequency: 433MHz  
Modulation: FSK  
Transmission frequency: Ver2 max. every other minute  
Ver1 every 2-4 hours  
Receiver: BrunataNet RS-485

### Log

No. of log measurements: 52  
Log period: 15 days  
Log data: Counter reading, overflow  
Other log information: ☉ors

### Pulse input

No. of inputs (channels): 4  
Meters per input: 1  
Signal type: S01 or reed  
Max. frequency: 16.67 Hz  
Min. pulse length: 28 msec  
Input scale: Programmable  
Connection: Screw terminals, LSA contact terminals

### Battery

Connection: Plug  
Battery type: Lithium 3.0 V  
Battery size: 2/3 AA  
Life: Min. 10 years + one year backup

### Type designations

Input	Item no.
4 reed	45-0000-B
1 S01 + 3 reed*	45-0020-B
2 S01 + 2 reed	45-0040-B
3 S01 + 1 reed	45-0060-B
4 S01	45-0080-B

\*Standard, in stock

### Protocol

Ver2 uses BrunataNet ver2 protocol  
Ver1 uses BrunataNet protocol

### Dimensions - measurements and weight:

Futura+ cabinet: 135 x 37 x 18 mm, 80 g  
Connection box: 66 x 66 x 20 mm, 41 g  
Cable length: Standard 3 m can be extended to 10 m

### Further information

Information on connection of consumption meters  
Please see Brunata Futura Signal - Installation guide UK-QB 10.1393.