

► Brunata Futura Hygro⁺

Electronic humidity meter measuring humidity and room temperature

- Measures the current temperature and humidity via internal sensor.
- Shows the temperature in °C with one decimal on the display.
- Shows the humidity in % RH with one decimal on the display.
- The allocator's range of measurement is 0 °C to +55 °C (273.2 K to 328.2 K) and 20 % to 100 % RH (without condensation).
- Carries out measurements every second minute.
- Sends a telegram every hour.
- Supplied with radio transmitter module for remote reading as standard.
- Easy-to-read display.
- Replaceable environmentally compatible battery.

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. The following data are stored for each period:

- The last fortnight's average temperature and humidity.
- Number of measurements in mode 1: The number of registrations during a fortnight the humidity went below 60 % RH (RH < 60 %).
- Number of measurements in mode 2: The number of registrations during a fortnight the humidity was between 60% and 70 % RH (60 % < RH < 70 %).
- Number of measurements in mode 3: The number of registrations during a fortnight the humidity was between 70% and 80 % RH (70 % < RH < 80 %).
- Number of measurements in mode 4: The number of registrations during a fortnight the humidity was above 80 % RH (RH > 80 %).

All temperatures are stored in kelvin with a resolution of 0.1 K and all humidity measurements are stored in % RH with a resolution of 0,4 % RH.



Humidity measurements

Brunata Futura Hygro⁺ is using a measuring principle which is based on capacitive measurements of the air's relative humidity. Alongside with measurements of the relative humidity the room temperature is also measured. These two measurements give a precise indication of the air relative humidity. It is not necessary to calibrate Brunata Futura Hygro⁺ which means that you never have to take the meter down.

With or without radio transmitter

Supplied with a radio transmitter allowing remote reading as standard. When the meter is read remotely, the full development of the measured temperatures can be seen. However, the meter can also be supplied without radio transmitter.

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 DS/EN ISO 9001 and 14001. Please contact us if you have any questions or would like further information.

Easy-to-read display

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

Display reading 1

Shows the current temperature from the recent measurement.



Display reading 2

Shows the current humidity from the recent measurement.



Display reading 3

Shows the allocator's number. Each allocator has its own unique number. As a result, Brunata can always find details of installation location.



Radio telegram

Every hour a telegram is sent from the allocator. Several information are included in the telegram, such as:

- Meter number
- Current temperature from the recent measurement
- Current relative humidity from the recent measurement
- Average temperature for the previous 24 hours
- Average relative humidity for previous 24 hours
- Average temperature for the previous fortnight
- Average humidity for the previous fortnight

All temperatures are transmitted in kelvin with a resolution of 0.1K, and humidity in % RH with a resolution of 0,4 % RH.

Technical information

Operating principle

Accurate reading of temperature and humidity. These registrations can be used to evaluate the indoor environment and potential humidity problems.

Application area

In buildings where you want to monitor the humidity e.g. in basements, apartments or new constructions, where you suspect there might be a problem with humidity, and therefore want to monitor the indoor climate.

Placement

Brunata Futura Hygro+ must always be placed on an inner wall. If the allocator is placed on an outer wall it might result in imprecise measurements. Furthermore the allocator must be placed at least 2 m from a radiator, wood burning-stove etc. Brunata Futura Hygro+ must not be placed in direct sunlight.

Transmission frequency

Brunata Futura Hygro+ ver2 sends a telegram every 2nd minute. (Brunata Futura Hygro+ ver1 sends a telegram every hour.)

Protocol

Brunata Futura Hygro+ ver2 use BrunataNet ver2 protocol. (Brunata Futura Hygro+ use BrunataNet protocol.)

Memory

The last 52 measurements from the 1st and 15th day of the month.

Measures

Brunata Futura Hygro+ :131 x 39 x 19 mm, weights approx. 65 g.

Battery

Replaceable lithium battery with an expected life of at least 6 years.