Belimo sensors for a healthy and comfortable room climate.

Room units from Belimo

The new bus-capable room units (sensors and room operating units) are the perfect addition to the existing product range. With the expansion of the product range for visible areas of the room, Belimo offers architects an aesthetic and timeless design. Installers appreciate quick installation and system integrators value easy commissioning with a smartphone. End customers enjoy not only a comfortable and healthy room climate but also the intuitive operation.

reddot winner 2022

- Aesthetic, timeless design
- Room operating units with ePaper touch display
- Fast installation thanks to spring-loaded terminal blocks and snap-on cover
- Parametrisation, setpoint adjustment and diagnosis of active devices via app
- Seamless integration thanks to Modbus RTU, BACnet MS/TP, MP-Bus or analogue voltage, current outputs
- Complies with California Title 24 for the CO_2 sensing requirement
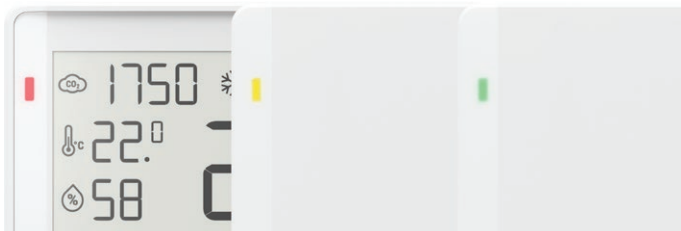
BELIMO®

Room sensors and room operating units.

The Belimo room units can be seamlessly integrated into existing building management systems. The Belimo Assistant 2 App also enables simple commissioning of active room units and their diagnosis with a smartphone. Thanks to NFC (near field communication), parametrisation is possible even when the room unit is not connected to the power supply. The depth of the devices varies depending on the sensor type, but is comparable to that of a smartphone or tablet.

FEATURES:

– Aesthetic, timeless design with ePaper touch display

– Fast installation thanks to spring-loaded terminal blocks and snap-on cover

– De-energised parametrisation via smartphone

– Wiring debugging function via smartphone

– Seamless integration, voltage and current output, MP-Bus, BACnet, Modbus at your choice

– Power adaptive temperature compensation algorithm for precise measurement

– Complies with California Title 24 for the CO_2 sensing requirement

Configurable to specific applications

The display on the room operating units is individually configurable and all display elements can be shown or hidden. Depending on the application, a setpoint for the temperature or fan speed can be shown or the device can be used solely as a sensor with display.

– Very good legibility thanks to the high contrast
– Easy to use due to the touch display
– No disturbing backlight at night

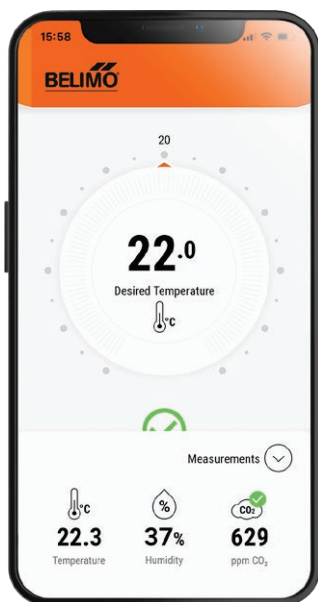The room units indicate the room air quality in terms of CO_2 concentration with an LED traffic light. The LED is not visible when the traffic light function is deactivated.

Seamless integration

The active room sensors and room operating units from Belimo can be easily and flexibly integrated into building systems via Modbus RTU, BACnet MS/TP, MP-Bus or analogue voltage, current outputs.

Room units at a glance.

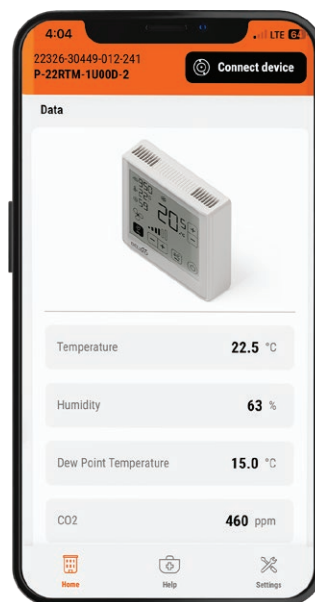|	Type code	Modbus/BACnet	Measured values					Measuring ranges			Display / NFC		
			CO_2	Relative humidity	Absolute humidity	Temperature active	Temperature passive	CO_2 (ppm)	Humidity	Temperature	ePaper display	Display App	NFC
	01RT						■	–	–	0...50 °C	–	–	–
	P-01RT						■	–	–	0...50 °C	–	–	–
	P-22RT-1800D-1					■		–	–	0...50 °C	■	■	■
	P-22RTH-1800D-1			■	■	■		–	0...100 %	0...50 °C	■	■	■
	P-22RTM-1800D-1		■	■	■	■		0...2000	0...100 %	0...50 °C	■	■	■
	22RTH-5800D			■	■	■		–	0...100 %	0...50 °C	■	■	■
	22RTM-5800D		■	■	■	■		0...2000	0...100 %	0...50 °C	■	■	■
	P-22RTH-1U00D-2	■		■	■	■		0...2000	0...100 %	0...50 °C	■	■	■
	P-22RTM-1U00D-2	■	■	■	■	■		0...2000	0...100 %	0...50 °C	■	■	■
	P-22RT-18-1					■		–	–	0...50 °C	–	■	■
	P-22RTH-18-1			■	■	■		–	0...100 %	0...50 °C	–	■	■
	P-22RTM-18-1		■	■	■	■		0...2000	0...100 %	0...50 °C	–	■	■
	22RTH-5800A			■	■	■		–	0...100 %	0...50 °C	–	■	■
	22RTM-5800A		■	■	■	■		0...2000	0...100 %	0...50 °C	–	■	■
	P-22RTH-1U00A-2	■		■	■	■		0...2000	0...100 %	0...50 °C	–	■	■
	P-22RTM-1U00A-2	■	■	■	■	■		0...2000	0...100 %	0...50 °C	–	■	■

Clear display, intuitive operation.

App for the end user

With the intuitive Belimo display app, the current room values can be displayed and setpoints can be changed. Access protection prevents input by unauthorised people. The app communicates with the room unit via near field communication.

– Display of all actual values of the active room sensors
– Adaptation of the temperature setpoint of the room operating unit without a display on the room unit
– Access protection from unauthorised changes

App for the installer

The Belimo Assistant 2 App enables simple commissioning of the active room units and their diagnosis with a smartphone.

– De-energised parametrisation of the active room units
– Actual value is also displayed as volt signal
– Fault diagnostics

5-year warranty	On site around the globe	Complete product range	Tested quality	Short delivery times	Comprehensive support

BELIMO Asia Pacific Ltd.
info.asiapacific@belimo.ch

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