Belimo sensors – the foundation of comfort.

Belimo Room Units

The new room sensors and room operating units are the perfect complement to Belimo's existing sensor range. With the expansion of the product range for visible areas of the room, Belimo offers the architect an aesthetic and timeless design, the installer quick installation, the system integrator easy commissioning and the end customer a comfortable room climate.

- Aesthetic, timeless design
- Fast installation thanks to spring-loaded terminal blocks and a housing that can be opened and closed without tools
- Easy configuration and diagnostics of active devices via NFC

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BELIMO®

Room sensors and room operating units.

The Belimo room units can be integrated seamlessly into existing controllers from third-party manufacturers. The Belimo Assistant App also allows easy commissioning of the active room sensors and their diagnostics via smartphone. Near Field Communication (NFC) allows assisted configuration, even if the room sensor is not connected to the power supply.

Applications

The active and passive room units are suitable for example, in the following room applications:

– Demand-controlled VAV
– Heated/chilled ceiling
– Radiator or underfloor heating
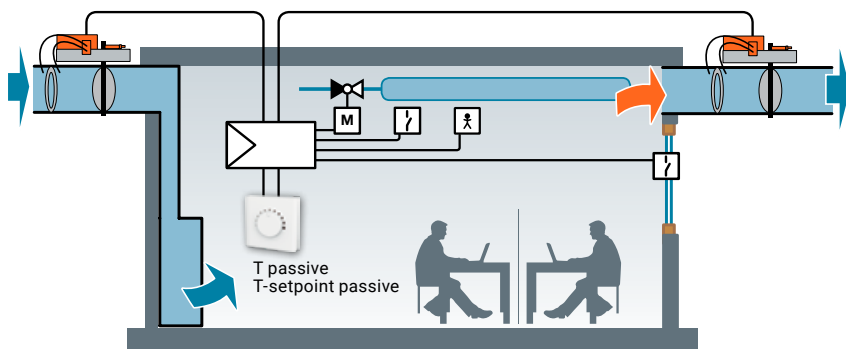
THE FOLLOWING ADVANTAGES ARE OFFERED:

– Aesthetic, timeless design

– Fast, tool-less installation thanks to spring-loaded terminal blocks

– Deenergised configuration via NFC*

– Simple diagnostic function via NFC*

– Short response time

– 0...5 V, 0...10 V, 2...10 V or MP-Bus output signals in one device*

– Digital input with additional power supply of an external device (e.g. presence detector)*

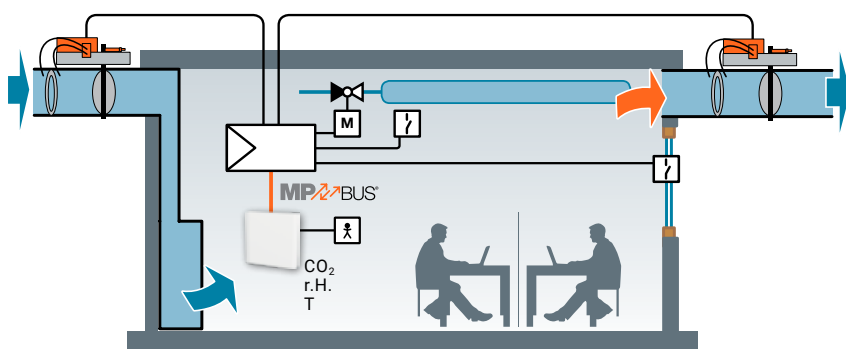– Reverse polarity protection*

 * for active devices

T passive
T-setpoint passive

Example of chilled ceilings with VAV and a passive room operating unit as temperature sensor with setpoint adjustment.

MP BUS

CO_2
r.H.
T

Example of a demand-controlled VAV application with a CO_2 room sensor. The controller is connected via three 0...10 V outputs or an MP-Bus output.

When using the MP-Bus interface, the digital input can also be used to transmit a switch signal via the bus. In addition, a 24 V power supply is available.

Room units at a glance.

Room sensors

	Application	Type	Measuring value	Output signal	Measuring range	Comment
	Passive	01RT-1B-0	Temperature	Pt1000	0...50°C	
		01RT-1C-0		Ni1000		
		01RT-1F-0		NTC1.8k		
		01RT-1L-0		NTC10k2		
		01RT-1M-0		NTC10k3 (Precon)		
		01RT-1Q-0		NTC20k		
	Passive with Manual Override	01RT-5B-0		PT1000		
		01RT-5L-0		NTC10k2		
		01RT-5M-0		NTC10k3		
		01RT-5Q-0		NTC20k		
	Active & NFC	22RT-19-1	Temperature	DC 0...5 V, DC 2...10 V, DC 0...10 V or MP-Bus	0...50°C	Measuring range freely adjustable with app
		22RTH-19-1	Temperature Humidity		0...50°C 0...100% r.H.	
		22RTM-19-1	Temperature Humidity CO_2		0...50°C 0...100% r.H. 0...2000 ppm	
		22RT-59-1	Temperature		0...50°C	
		22RTH-59-1	Temperature Humidity		0...100% rH,	
		22RTM-59-1	Temperature Humidity CO_2		0...100% rH 0...2000ppm	

Room operating units

	Application	Type	Measuring value	Output signal	Output Setpoint
	Passive	P-01RT-1B-0	Temperature	Pt1000	1k Ohm
		P-01RT-1F-0		NTC1.8k	1k Ohm
		P-01RT-1L-0		NTC10k2	10k Ohm
		P-01RT-1M-0		NTC10k3	10k Ohm
	Passive with Setpoint and Manual Override	P-01RT-5B-0		PT1000	1k Ohm
		P-01RT-5L-0		NTC10k2	10k Ohm
		P-01RT-5M-0		NTC10k3	10k Ohm
		P-01RT-5Q-0		NTC20k	10k Ohm

Timeless,
slim design.

Belimo as a global market leader develops innovative solutions for the controlling of heating, ventilation and air-conditioning systems. Actuators, valves and sensors represent our core business.

Always focusing on customer added value, we deliver more than only products. We offer you the complete product range for the regulation and control of HVAC systems from a single source. At the same time, we rely on tested Swiss quality with a five-year warranty. Our worldwide representatives in over 80 countries guarantee short delivery times and comprehensive support through the entire product life. Belimo does indeed include everything.

The "small" Belimo devices have a big impact on comfort, energy efficiency, safety, installation and maintenance.
In short: Small devices, big impact.

NFC The Belimo Assistant App allows easy commissioning of the active room sensors and their diagnostics via smartphone.

5 5-year warranty

On site around the globe

Complete product range

Tested quality

Short delivery time

Comprehensive support

BELIMO Actuators Ltd.
info.asiapacific@belimo.ch

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