



The foundation
of comfort.

Belimo sensors and meters

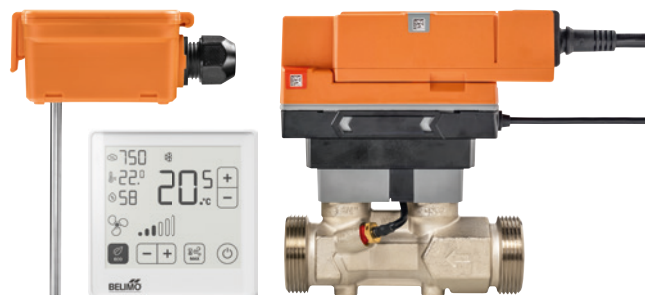
BELIMO[®]

Sensors by Belimo. The perfect complement to actuators and valves.



The sensors and thermal energy meters from Belimo meet the highest quality and reliability requirements. Using innovative technology ensures easy installation and seamless compatibility with all essential building automation systems.

Belimo offers a full product range of sensors for measuring temperature, humidity, pressure, CO₂, volatile organic compounds (VOC) and flow in pipe, duct and outdoor applications. The new room sensors, room operating units and energy meters are the perfect addition to the existing sensor product range. All products are backed by world-class service and support.



Seamlessly integrated, reliable and intuitive.

Belimo sensors are the result of years of experience and HVAC expertise as well as our continuous focus on providing added value to our customers. The innovative design offers easy installation and seamless integration to ensure optimal system performance.



Seamless

Utilising innovative technology, sensors are designed to work with all major building automation systems ensuring optimised solutions in terms of performance and energy efficiency.



Reliable

The well-known high quality of Belimo guarantees reliable and accurate measured values over the complete life cycle of the building. The highly resistant sensors also carry a 5-year warranty and meet IP65/NEMA 4X requirements.



Intuitive

Installation and commissioning only take a few steps thanks to the well thought out design. The removable mounting plate also serves as a drilling template. Thanks to the specially designed snap-on cover and removable spring loaded terminal blocks, mounting is possible with hardly any tools.

“We have been working together with Belimo for many years, because the quality of the products and the exceptional customer service have convinced us. In addition to the proven actuators and valves, Belimo also offers a well coordinated and continuously growing sensor product range.”

**Meinrad Oberholzer, Systems Integrator,
Stesag AG**

“The quality of the indoor air plays an ever-greater role in our health. The air quality sensors from Belimo offer us great added value in monitoring and regulating indoor air quality and humidity.”

**René Frick, Facility Manager,
Liechtensteinische Landesbank AG**

Simple installation combined with lean, timeless design.

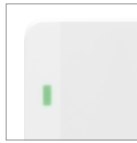
ePaper Touch Display

Offers easy legibility thanks to high contrast and simple, intuitive touch operation.



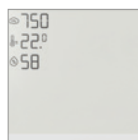
CO₂ traffic light

An LED shows the air quality in the room based on the CO₂ concentration. The LED is not visible when the function is switched off.



Configurable to specific applications

The display can be individually configured. Depending on the application, a setpoint for the temperature or fan stage can be shown or the device can be used solely as a sensor with display.

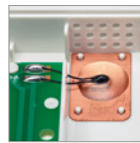


BACnet and Modbus communication protocols

Provide direct access to the application data and allow for easy commissioning and configuration.



reddot winner 2022



Short reaction time

Thanks to sophisticated technology, the sensor reacts extremely quickly to changes in temperature.



Aesthetic, timeless design

Extremely thin shape and simple design suitable for every environment.



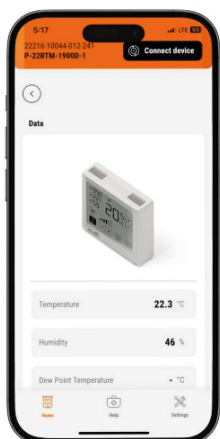
Tool-free mounting

Thanks to the snap-on cover and spring loaded terminal blocks, the room units can be installed with hardly any tools.



High accuracy

Precise measuring method and low-wall coupling factor reliably ensure a comfortable room climate.



Near Field Communication (NFC)

The Belimo Assistant enables simple commissioning of the active room sensors and their diagnosis with a smartphone/tablet via NFC. The sensors can be parameterised in a deenergised state.

Room units

Belimo's room devices impress with their aesthetic, timeless design with a shallow depth of between 13 and 23 mm. They can be seamlessly integrated into existing controllers and feature fast, tool-free mounting as well as high long-term stability and short response times. The Belimo Assistant also guarantees simple commissioning of active room sensors and diagnostics via smartphone/tablet or PC/laptop (Windows). Thanks to NFC, parametrisation is possible even when the room sensor is not connected to the power supply.

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 outputs.



Belimo Display

With the intuitive Belimo Display, the current room values can be displayed and setpoints can be changed. Access protection prevents input by unauthorised personnel. 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

FEATURES

- Aesthetic, timeless design
- Fast installation without tools thanks to spring loaded terminal blocks
- De-energised configuration via NFC*
- Simple diagnostics function via NFC*
- Short reaction time
- 0...5 V, 0...10 V, 2...10 V or MP-Bus as output signal in one device*
- Reverse polarity protection*



*For active devices

Room units at a glance.

Room sensors

	Type	Output signal ¹	Temp.	Humidity	CO ₂	Display App	NFC	Dimensions [mm]
Passive	01RT-1B-0	Pt1000						
	01RT-1C-0	Ni1000						
	01RT-1D-0	Ni1000TK5000						
	01RT-1F-0	NTC1.8k	■	-	-	-	-	86x86x13
	01RT-1L-0	NTC10k2						
	01RT-1M-0	NTC10k3 (Precon)						
	01RT-1Q-0	NTC20k						
Active	22RT-19-1	0...5 V,	■	-	-			
	22RTH-19-1	2...10 V, 0...10 V,	■	■	-	□ ²	■	87x87x21
	22RTM-19-1	MP-Bus	■	■	■			



01RT-1..-0

Room operating units

	Typ	Output signal ¹	Setpoint signal adjustable	Temp.	Humidity	CO ₂	ePaper display	Display app	NFC	Dimensions [mm]
Passive	P-01RT-1B-0	Pt1000	0.7...1.3 kΩ							
	P-01RT-1F-0	NTC1.8k		■	-	-	-	-	-	86x86x22.5
	P-01RT-1L-0	NTC10k2	2.5...8.5 kΩ							
	P-01RT-1M-0	NTC10k3								
Active	P-22RT-1900D-1	0...5 V,		■	-	-				
	P-22RTH-1900D-1	2...10 V, 0...10 V,		■	■	-				
	P-22RTM-1900D-1	MP-Bus	Temperature and Ventilation	■	■	■	■	-	■	87x87x23
	P-22RTH-1U00D-2	Modbus/ BACnet		■	■	-				
	P-22RTM-1U00D-2	Modbus/ BACnet		■	■	■				
	P-22RTH-1900A-1	0...5 V, 2...10 V, MP-Bus		■	■	-				
	P-22RTM-1900A-1	MP-Bus	Temperature	■	■	■		■	■	87x87x21
	P-22RTH-1U00A-2	Modbus/ BACnet		■	■	-				
P-22RTM-1U00A-2	Modbus/ BACnet		■	■	■					



P-22RT..-1900D-1



P-22RT..-1900A-1

¹ Measuring range with active devices freely adjustable via app

² Without setpoint adjustment

Innovation for your peace of mind.

Snap-on cover

The first sensor housing on the market that offers protection according to IP65/NEMA 4X and can be opened and closed without any tools. This makes the installation not only faster but also more reliable.



BACnet and Modbus communication protocols

Provide direct access to the application data and allow for easy commissioning and configuration.



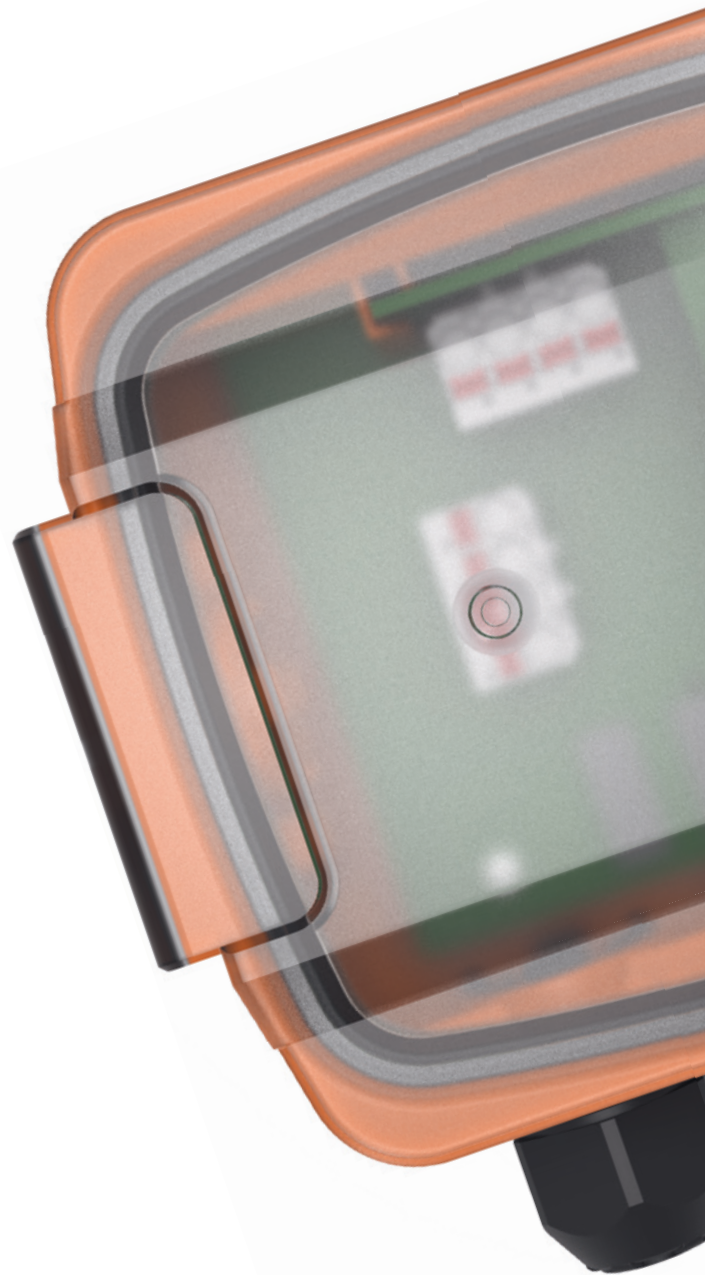
Detachable mounting plate

Serves as a drill template for easy fastening and installation.



Conformity with IP65/NEMA 4X

Belimo sensors with a snap-on cover are suitable for demanding outdoor and industrial applications. They are resistant to UV radiation, dirt, dust, humidity, condensation, rain and snow.





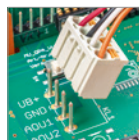
Housing in universal construction

Ensures a streamlined product range, which makes the product selection process and installation quick and easy. The uniform concept prevents errors during installation and reduces mounting time.



Modular cable glands

Suitable for additional wiring options and mounting configurations.



Removable, push-in spring loaded terminal blocks

Enable tool-free, time-saving wiring when plugged or unplugged and the highest conductor pull-out force for maximum reliability. Thanks to reverse polarity protection, the electronics are fully protected against incorrect wiring.



Belimo Duct Sensor Assistant

Enables setting and quick diagnosis for Belimo sensors via Bluetooth dongle.

The Belimo sensors have a unique, standardized housing and assembly concept. This means that they not only provide quick installation but are also fully compatible with all major building automation and control systems. This design blends seamlessly into the Belimo product range (actuators, valves and sensors). The newly developed housing fully meets the requirements of IP65/NEMA 4X.

A comprehensive range of duct and pipe sensors.

With a complete product range of sensors, Belimo can offer all HVAC field devices from a single source. Actuators and valves are complemented by an extensive range of sensors for temperature, humidity, air quality and pressure.

Belimo offers standardised sensors, efficient ordering methods, on-time deliveries, easy installation, various cable gland options and fast commissioning. The attractive uniform design makes the sensors easy to install and ensures high reliability. In addition, thanks to the characteristic orange housing, the sensors can be immediately recognised as Belimo products, which is particularly useful during commissioning.

Temperature sensors

Accurate and reliable temperature readings are essential for optimal building comfort and energy efficiency. The outside air, duct and pipe temperature sensors are designed for precise and easy measurement and easy mounting.



FEATURES

- A variety of output signals, passive NTC and RTD, 0...5/10 V, 4...20 mA guarantees seamless connections to all major building automation systems
- Up to eight field-selectable measuring ranges to simplify logistics, reduce inventory and ensure more flexibility
- Sintered moisture protection coating on all duct, immersion and cable sensors protects against condensation, mechanical stress and vibrations

PRODUCT SERIES

- Outside
- Duct mean value
- Duct/immersion
- Pipe contact
- Cable
- Frost protection

Humidity sensors

Monitoring air humidity is essential for ensuring optimal comfort in a building and is also important for protecting the building infrastructure, production processes, stored goods and works of art. The product range of long-term stable humidity sensors for ducts, outdoor air and condensation enables energy-optimised operation and ensures compatibility with all major building automation systems. High-quality and reliable sensors guarantee the accuracy and reproducibility of the measured sensor values. Combined sensors for temperature and humidity provide a flexible and cost-saving solution.



FEATURES

- Capacitive polymer sensor with an accuracy of $\pm 2\%$ relative humidity and a low long-term drift of $< \pm 0.3\%$
- Multi sensor with selectable output measurement values: relative humidity, absolute humidity, enthalpy and dew point
- Up to four field-selectable temperature measuring ranges offer flexibility during commissioning, simplify logistics and reduce inventory

PRODUCT SERIES

- Outside
- Duct
- Condensation

Air quality sensors

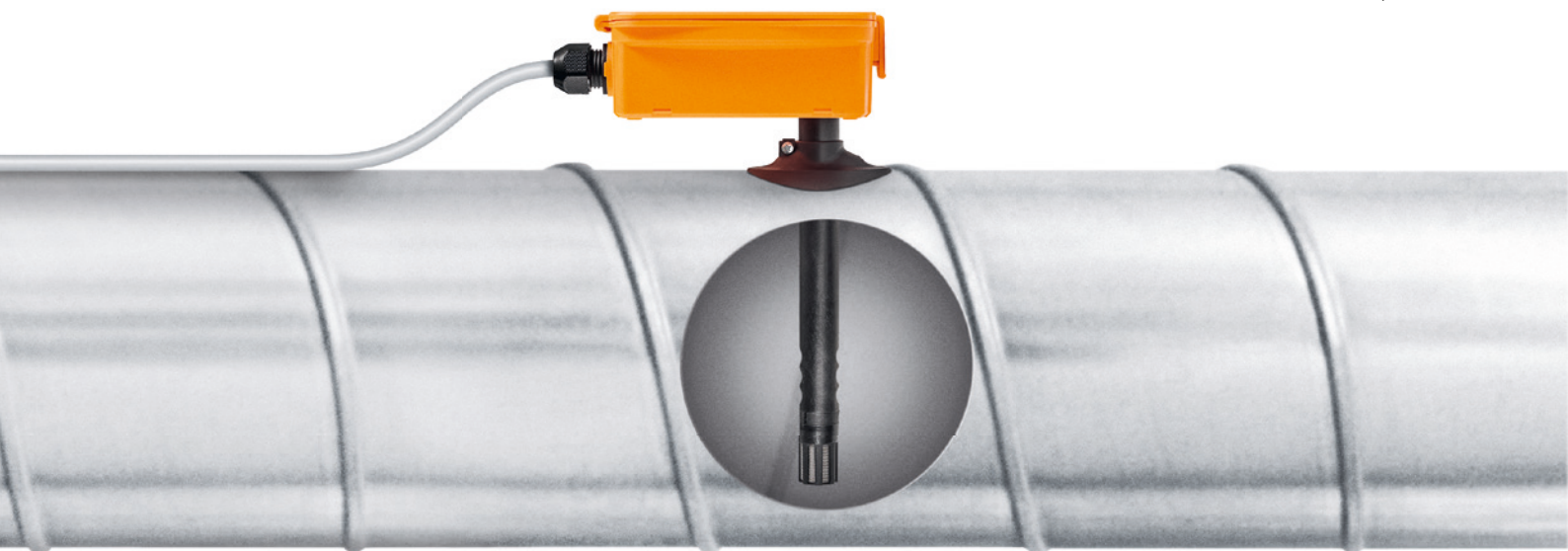
Air quality sensors from Belimo, such as CO₂ and VOC sensors, guarantee optimal indoor air quality with increased comfort and maximised energy savings in buildings. Combined temperature and humidity sensors are also available.

FEATURES

- Dual-channel CO₂ sensor based on NDIR technology. The additional reference channel enables reliable compensation of long-term and temperature drifts and ensures maximum accuracy and long-term stability
- Wide range of combined multi sensors for CO₂, humidity, temperature and VOC offer reduced labour and material costs
- Dual-channel self-calibration technology enables the use of Belimo CO₂ sensors in all buildings and applications, even where the ABC (Automatic Background Calibration) method cannot be used

PRODUCT SERIES

- CO₂
- CO₂ + Temperature
- CO₂ + Humidity + Temperature
- CO₂ + VOC
- CO₂ + VOC + Temperature
- CO₂ + VOC + Mix CO₂/VOC + Temperature



Pressure sensors

Precise pressure measurements are important for optimal HVAC system performance. Pressure sensors from Belimo cover a very large pressure range. They measure very low to very high pressures in air, water and water/glycol mixtures. Selectable measuring ranges provide enhanced flexibility in the application and reduce stockholding. The sensors measure pressure and differential pressure and calculate volumetric flow precisely for reliable control and monitoring. Optional displays on the sensors facilitate programming and enable permanent display of the measured values.



FEATURES DIFFERENTIAL PRESSURE SENSOR FOR AIR

- Eight field-selectable differential pressure measuring ranges
- Optional volume flow output: calculation formulas of the most important manufacturers are stored in the sensor
- Excellent zero point stability and high accuracy
- Auto-zero or manual-calibration option
- Optional LCD display
- Also available with two independent measurement systems

FEATURES DIFFERENTIAL PRESSURE SWITCH FOR AIR

- Durable pressure switch: over 10^6 switching cycles
- Field-adjustable switching point

FEATURES DIFFERENTIAL PRESSURE SENSOR FOR WATER

- Highly stable resistance sensor element on ceramic substrate
- Robust stainless steel housing

FEATURES PRESSURE SENSOR FOR WATER

- Resistance sensor element on stainless steel membrane
- All wetted material made of stainless steel

PRODUCT SERIES

- Differential pressure for air
- Differential pressure switch for air
- Differential pressure for water
- Relative water pressure



NEW

- Offset sensors for easy mounting
- Precision sensor elements in stainless steel
- Selectable output signal types on the sensor
- Manual zero-point adjustment
- Display for showing settings and the measured values

Flow sensors

Reliable flow measurement plays a crucial role in optimising the efficiency of HVAC systems. Belimo sensors utilise the ultrasonic time-of-flight technology to provide accurate flow measurements for water and water-glycol mixtures throughout the entire temperature range from -20 to 120°C . The sensor is made of corrosion-resistant materials and is insensitive to dirt due to the ultrasonic measuring principle. This ensures reliable operation and a long service life.



FEATURES

- Multipoint wet calibration ensures high accuracy and reproducibility over the entire measuring range
- The patented logic for temperature and glycol compensation ensures accuracy over the entire temperature and concentration range
- $\pm 2\%$ accuracy of reading and $\pm 0.5\%$ reproducibility ensure accurate and precise flow measurement
- Ultra-compact size: with a short inlet section of $5 \times \text{DN}$ and no outlet length requirements, the ultrasonic flow sensor from Belimo can also be installed in confined spaces
- Low energy consumption of 0.5 W

PRODUCT SERIES

Ultrasonic Flow

Convenient operation.

Belimo offers various apps for your smartphone/tablet or PC/laptop to provide you with direct help while you are working. All apps are available for free download from Google Play or the App Store. The Windows Version can be downloaded from our website.



Belimo Assistant

For on-site operation of devices with built-in NFC interface. Complete transparency at all times regarding your Belimo HVAC actuator solution and operation of your system. With the Belimo Assistant your smartphone/tablet or PC/laptop (Windows) provides wireless on-site operation for VAV, sensors, damper and valve actuators.

Belimo Display

The Belimo Display is the most innovative way to access Belimo room sensors and room operating units. With the intuitive end-customer app, the current room values can be displayed and setpoints can be adjusted.

Belimo RetroFIT+

With the Belimo RetroFIT+ app, you can specifically replace your obsolete or defective sensors and actuators from various suppliers with devices from Belimo.

Belimo Duct Sensor Assistant

Via the Belimo Duct Sensor Assistant it is possible to extend the range of use and to adapt the configuration individually to application requirements.



Belimo Display

Energy cost billing as simple as never before.

Certified metering, MID approval

Meets all requirements of EN 1434, including type approval in accordance with the European Measuring Instruments Directive 2014/32/EU (MI-004).



Digitally supported processes

The Belimo Assistant guides you through the commissioning process.



IoT-based billing

When connected to the Belimo Cloud, owner-authorised 3rd parties are able to securely access consumption data and provide billing services.



Simple integration

Using BACnet/IP and MS/TP, as well as Modbus TCP and RTU, the thermal energy meter can be integrated directly in the building management system.



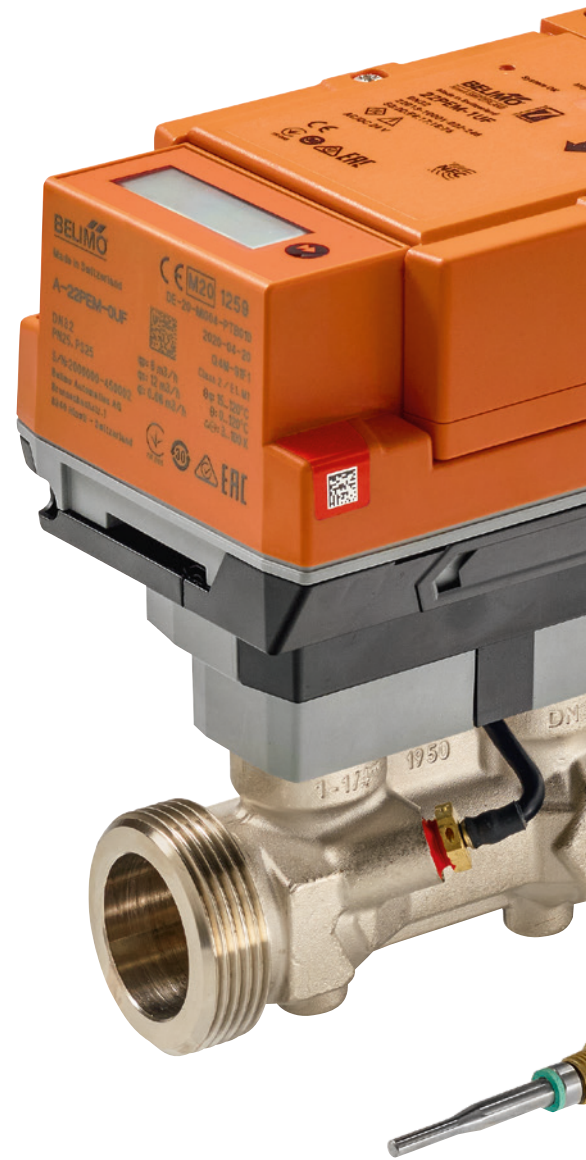
Connection between the old and the new world of thermal energy management

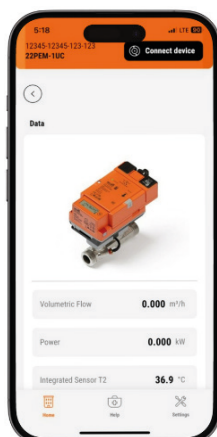
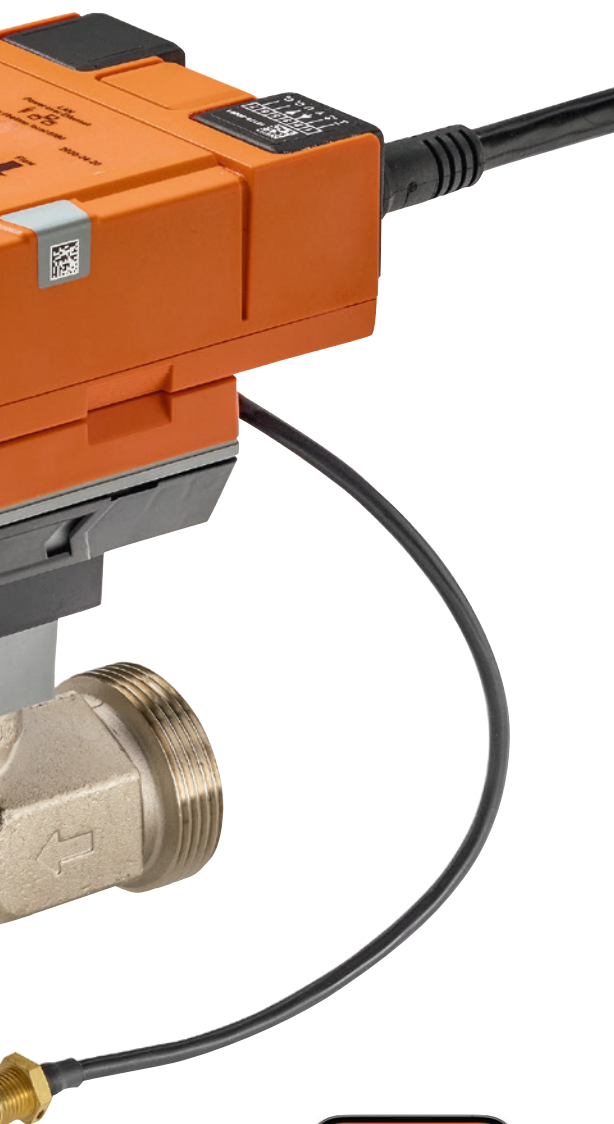
With M-Bus via converter and parallel operation with BACnet IP or Modbus TCP for connection to the building automation.



Power over Ethernet (PoE)

The devices can be connected with one standard Ethernet cable for power supply and data transmission.





Embedded web server

Direct data access is possible via the integrated webserver and settings can be undertaken very easily.



Glycol measurement and compensation

Glycol measurement and compensation guarantee precise energy metering of standard devices at all times. With the MID version, a glycol alarm is triggered.



Sensor interface

Optionally, a passive resistance sensor, an active sensor or a switching contact can be connected. The analogue signal of the sensor is digitised with the thermal energy meter and transferred to the corresponding bus system.



Modular design for fast meter switching

The energy meter is comprised of a logic module and a sensor module. Once the calibration deadline has been reached, only the sensor module needs to be replaced. Significant savings in terms of both costs and time.



Multifunctional application

Designed as a multi-application device, it can be used as a heat meter, cooling meter or as a combined heat/cooling meter.

Simple parameterisation, setup and monitoring

Quick and simple data access on-site, commissioning and troubleshooting with the Belimo Assistant and a smartphone/tablet or PC/laptop (Windows).

Reliable certified measurement and IoT-based billing.

High quality measurement

Belimo's thermal energy meters use ultrasonic time-of-flight technology, and as a result are dirt-resistant, wear-free, and precise in their measurements. The multipoint wet calibration of each individual meter in production ensures high accuracy over the entire flow measurement range.



Multipoint wet calibration

Multi-application device

Belimo's thermal energy meters are designed to be multi-application devices, i.e. they can be used as heat meters, cooling meters, or as combined heating/cooling meters.

Even greater accuracy thanks to automatic glycol compensation

Our thermal energy meters are also available without MID approval. They reliably measure energy even when there is glycol in the water. They automatically and continuously measure the glycol content in the fluid, compensate for it and, in doing so, ensure correct ultrasonic flow measurement. This results in precise determination of the thermal energy.



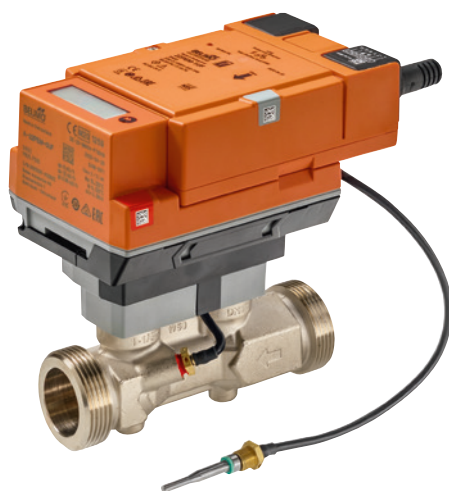
Modular design for fast meter switching

The thermal energy meter is comprised of a sensor module (lower part) with connected temperature sensors, in which arithmetic-logic unit and measurement system are housed. The bus and NFC communication interface is available in the Logic module (upper part), through which the thermal energy meter is connected to the power supply.

Thermal Energy Meter

Depending on the desired application, thermal energy meters that meet the requirements of EN1434 and have type approval according to the European Measuring Instruments Directive 2014/32/EU (MID) or devices with automatic glycol compensation are available. If the application requires a calibrated heat measurement, which can be used to settle the costs directly, the MID-approved thermal energy meters are used.

Thermal energy meters are also available without approval, for applications or regions that do not require it. This model should also be selected if you require automatic glycol compensation, e.g. with sub-zero applications.








FEATURES

- Accurate flow measurement based on ultrasonic time-of-flight technology
- Ready for IoT-based billing
- Simple setup and configuration with the Belimo Assistant
- Analogue/digital signal conversion of additional passive and active sensors or switches
- Analogue output (e.g. DC 0...10 V) is available and can output the flow rate or temperature of the fluid
- Seamless integration in the building management system via bus communication
- Device can be powered and data transmitted directly via Ethernet cable (PoE)

Duct and pipe sensors at a glance.

The following tables provide an overview of Belimo's wide range of sensors for each application and their technical specifications.

Temperature

Application	Type code	Output signal			Measured range ¹⁾ Factory setting	Multirange (selectable)	Probe length [mm]	Application/comment
		Passive	Active	Switch				
 Outside	01UT	■			-35...50 °C	-	-	- Outdoor temperature sensor - Temperature sensor with NEMA 4X / IP65 protection
	22UT		■		-50...50 °C	8	-	
 Duct/ Immersion	01DT	■			Sensor-dependent	-	50, 100, 150, 200, 300, 450	- Duct temperature sensor - Immersion temperature sensor, compression fitting or thermowell required
	22DT		■		0...160 °C	8	50, 100, 150, 200, 300, 450	
 Duct averaging	01MT	■			-35...70 °C	-	3000, 6000	Duct averaging temperature sensor for air-handling units or larger ducts with stratification
	22MT		■		-20...80 °C	8		
 Contact	01ST	■			-35...100 °C	-	-	Strap-on temperature sensors for heating systems and solar collectors, passive (ST, without housing) and passive or active (HT, with housing)
	01HT	■			-35...90 °C	-	-	
	22HT		■		0...100 °C	8	-	
 Cable	01CT	■			-35...100 °C	-	2000	Cable temperature sensor passive (without housing) and active (with housing)
	22CT		■		0...160 °C	8	2000	



Belimo sensors feature:

Active: 0...5/10 V, 4...20 mA



Passive: Pt100, Pt1000, Ni1000, NiTK5000, Ni891, NTC10K, NTC10K Precon, NTC20K

Communication: Modbus RTU, BACnet MS/TP

Supply voltage: DC 15...24 V, AC 24 V





Protection: IP65/NEMA 4X (exceptions are 01APS and FM: IP54, MS: IP40)

Temperature


Application	Type code	Output signals				Measured range ¹⁾ Factory setting	Probe length [mm]	Application/comment
		Passive	Active	Switch	Modulating valve control DC 0...10 V			
 Frost monitor	01ATS	■	■			-10...15°C	3000, 6000	Frost detection for air handling units according to the heating coil
 Frost monitor	20DTS		■	■	■	1...10°C	2000, 6000	Protection against frost damage on air-conditioning systems, heat exchangers, heating coils, etc.
 Temperature monitor TW	01HT-1...A			■		30...90°C	1000	Monitoring of heat generation systems, underfloor heating or other applications of HVAC technology
 Safety temperature limiter STB	EXT-J-0073464.			■		50...130°C	1000	

1) The factory setting is specified for active sensors with several selectable temperature measuring ranges (multirange). For the other areas as well as the approved ambient and media temperature ranges see data sheet.

Humidity

Application	Type code	Measured values						Output signals				Measuring ranges			Application/comment
		Rel. humidity	Temperature	Enthalpy	Dew point	Abs. humidity	Condensation	Active	Modbus RTU	BACnet MS/TP	Switch	Humidity	Temperature ¹⁾ Factory setting	Multirange (selectable)	
 Outdoor	22UTH	■	■	■	■	■		■	■	■		0...100% RH	-20...80°C	4	- Outdoor sensor humidity/temperature - Room sensor humidity/temperature with IP65/NEMA 4X protection - Option: weather protection
 Duct	01DH	■										15...95% RH	-	-	Duct sensor humidity and humidity/temperature
 Duct	22DTH	■	■	■	■	■		■	■	■		0...100% RH	-20...80°C	4	
 Condensation	22HH						■				■	-	-	-	Condensation Sensor Option: external sensor

Air quality

Application	Type code	Measured values					Output signals			Measuring range ²⁾			Application/comment
		CO ₂	Temperature	Humidity	VOC	Mix CO ₂ /VOC	Active	Modbus RTU	BACnet MS/TP	CO ₂	Temperature	Humidity	
 Duct	22DC	■					■			0...2000 ppm	-	-	Duct sensor CO ₂
	22DTC	■	■				■			0...2000 ppm	-	-	Duct sensor CO ₂ , T
	22DTM	■	■	■				■	■	0...2000 ppm	0...50°C	0...100% RH	Duct sensor CO ₂ , H, T
	22DCV	■			■		■			0...2000 ppm	-	-	Duct sensor CO ₂ , VOC, CO ₂ /VOC, T
	22DCM	■	■		■		■			0...2000 ppm	0...50°C	-	Duct sensor CO ₂ , VOC, T
	22DCK	■	■		■	■	■			0...2000 ppm	0...50°C	-	Duct sensor CO ₂ , VOC, CO ₂ /VOC, T

1) The factory setting is specified for active sensors with several selectable temperature measuring ranges (multirange).

For the other areas as well as the approved ambient and media temperature ranges see data sheet.






2) An adjustable measuring range of 0...5000 ppm is available via the Belimo Duct Sensor Assistant.

3) For sensors with Modbus RTU only.



4) For pressure sensors with several measurement ranges (multirange), the maximal range is noted.

For the other ranges see data sheet.



Pressure

Application	Type code	Measured values			Output signals			Fluid			Measuring range ³⁾			Options		Application/comment	
		Differential pressure	Relative pressure	Flow ⁴⁾ (Volumetric flow)	Active	Modbus RTU	MP-Bus	Switch	Air	Water	Water/glycol mixtures	Pressure	2 meas. systems	4 analogue outputs	4 Air connections		Multirange (selectable)
 Duct	22ADP	■		■	■				■			250 Pa, 2500 Pa, 7000 Pa	■	■	■	■	Differential pressure sensor air
	01APS	■						■	■			20...300 Pa, 50...500 Pa, 200...1000 Pa, 500...2500 Pa					Duct differential air-pressure switch
 Pipe	22WP		■		■				■	■	■	4, 6, 10, 16 bar					Pressure sensor water and water-glycol mixtures
	22WDP	■			■					■		1, 2.5, 4, 6 bar					Differential pressure sensor water
	22PDP	■			■					■		5, 10, 35 bar					Differential pressure sensor water

Flow

Application	Type code	DN [mm]	FS [l/s]	Connection		Fluid		Output signals				Application/comment
				Thread	Flange	Water	Water/glycol mixtures (< 50 %)	Active	MP-Bus	Modbus RTU	BACnet MS/TP	
 Pipe	22PF	15...50	0.50...5.00	■		■	■	0...10 V 0.5...10 V 2...10 V	■	■	■	Flow measurement with glycol compensation
	FM	65...150	9.60...54.00		■	■	■	0.5...10 V				

Thermal Energy Meter

Version	Type code	DN [mm]	Nominal flow [m ³ /h]	Autom. glycol compensation	Glycol alarm	Power over Ethernet (PoE)	EN1434 MID-approved	Display	MP-Bus	M-Bus with converter	Modbus RTU	Modbus TCP	BACnet MS/TP	BACnet IP	Application/comment
				■	■	■	■	■	■	■	■	■	■	■	
 MID	22PEM				■	■	■	■	■	■	■	■	■	■	Direct, calibrated energy cost billing
 Standard	22PE	15...50	1.5...15	■		■			■	■	■	■	■	■	Thermal energy recording and glycol compensation

All inclusive.

Belimo is the global market leader in the development, production, and sales of field devices for the energy-efficient control of heating, ventilation and air-conditioning systems. The focus of our core business is on damper actuators, control valves, sensors and meters.

Always focusing on customer 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.



5-year warranty



On site around the globe



Complete product range



Tested quality



Short delivery times



Comprehensive support

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