



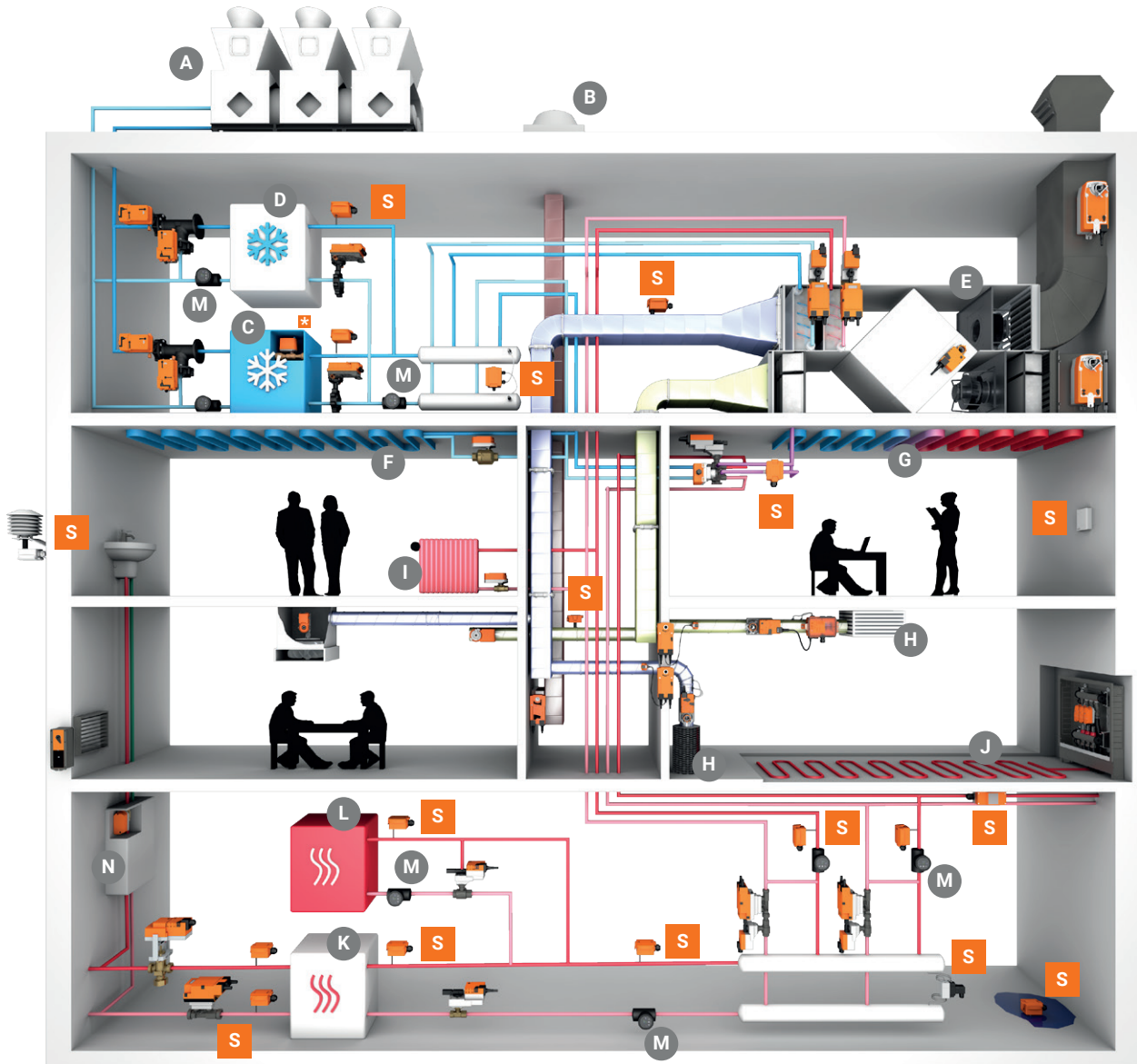
## Products and Prices Sensors / Meters

United Arab  
Emirates  
2026



Prices in AED  
Valid as of 1 January 2026

# Everything under one roof



## Legend

### Overview of Belimo products

**S** Sensors and meters

### Overview of third-party products

**A** Dry cooler, cooling

**B** Smoke control fan

**C** Chiller

**D** Heat exchanger, free cooling

**E** Air handling unit

**F** Chilled ceiling

**G** Heated/chilled ceiling

**H** Air diffuser

**I** Radiator

**J** Floor heating

**K** District heating transfer station

**L** Heat generator

**M** Circulation pump

**N** Fresh water station

# The choice is yours: catalogue or online

## Ordering from the catalogue

You can choose from various sensors and meters in this product catalogue.

With your order number, you can then simply contact your Belimo representative. They will make sure that you receive the solution for your needs that best meets your requirements for economy, energy efficiency and convenience.

For your region, please contact directly:

### **BELIMO Automation FZE**

P.O Box 293644

Dubai, United Arab Emirates

Phone: +971 4 299 80 50

Fax: +971 4 299 80 51

E-Mail: [info@belimo.ae](mailto:info@belimo.ae)

## Ordering online

All Belimo products and systems can of course also be ordered online. After a brief registration, you can start adding items to your personal shopping cart. You can order your chosen products directly from there.

[www.belimo.ae](http://www.belimo.ae)



Selection  
sensors/meters

## 5-year warranty

To us, innovation and stability are not a contradiction but characteristics of Belimo. Many companies promise you reliability – we give you a 5-year warranty.

## On site around the globe

We are where you are. Competent Belimo representatives are available to help you on all five continents at all times. We speak your language and understand you.

## Complete product range

You will find it: the product for your application – the solution to your problem. Whether for air, water or as a retrofit, for fire protection, smoke control or volumetric flow control.

## Tested quality

Precision, reliability and a fair partnership – that is what “Swiss quality” stands for. We take this claim seriously and diligently check every actuator for you down to the last detail before delivery.

## Short delivery times

Fast is not always fast enough. For this reason, we promise that you will receive your delivery on time, on the agreed date and at the right location.

## Comprehensive support

Design perfect solutions with very good products. We assist you with knowledgeable consultants, clever service tools and complete documentation that precisely answers all your questions.

# Sensors and thermal energy meters from Belimo



Our sensors offer the highest in quality and reliability, are simple to install and are seamlessly compatible with all conventional building automation systems. The product range covers the measured values temperature, humidity, pressure, CO<sub>2</sub>, VOC and flow rate in pipes, ducts, outdoor and room solutions. The product line is excellently complemented by the new thermal energy meters, with or without MID approval depending on the application. First-class service and support are included as a matter of course.

**Seamless integration and compatibility**



## Sensors and meters

### The perfect complement to actuators and valves

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S/M



**Belimo product innovations:  
Learn more here.**

The latest solutions for your needs.





# Differential pressure switches

## Output signal SPDT switch



01APS-..

For monitoring the overpressure, negative pressure or differential pressure of air or other non-flammable and non-aggressive gases. With setpoint adjustment and automatic reset function.

Degree of protection IEC/EN IP54

Housing Plastic, with removable cover



Measured values	Measuring ranges					Sensor type	AED
	Differential pressure						
Output signals	20...300 Pa	50...500 Pa	200...1000 Pa	500...2500 Pa	1000...5000 Pa		
SPDT switch	■					01APS-10R	186.00
	■					01APS-10R.1 <sup>1)</sup>	138.00
		■				01APS-10U	186.00
		■				01APS-10U.1 <sup>1)</sup>	138.00
			■			01APS-101	186.00
			■			01APS-101.1 <sup>1)</sup>	138.00
				■		01APS-104	186.00
				■		01APS-104.1 <sup>1)</sup>	138.00
					■	01APS-105	186.00

<sup>1)</sup> Multipack at 45 pieces, price per piece. (Mounting accessory A-22AP-A05.1 must be ordered separately.)

# Temperature average and humidity

## Output signals active, passive, SPDT switch, Modbus RTU, BACnet MS/TP

For measuring humidity and temperature averages in ducts and air handling units.

Power supply	AC/DC 24 V (active sensors)
Degree of protection IEC/EN	IP65 / NEMA 4X IP55 (duct humidistat 01DH-..)
Housing	Plastic



Measured values				Measuring ranges									
Output signals				Temperature			Humidity						
		Multirange	Probe length	-35...50°C	-40...80°C	-35...70°C	Relative: 0...100% RH	Absolute: 0...80 g/m <sup>3</sup>	Dew point: -20...80°C	Enthalpy: 0...85 kJ/kg	Adjustment range 15...95% RH	Sensor type	AED
<b>Temperature (average value)</b>													
Passive	Pt1000		3 m			■						01MT-1B4	1079.00
			6 m			■						01MT-1B5	1157.00
			15 m			■							01MT-1B8
Active	0...5 V / 0...10 V	■	3 m									22MT-124	1260.00
		■	6 m	■								22MT-125	1324.00
		■	15 m	■								22MT-128	2967.00
		■	3 m	■								22MT-144	1260.00
		■	6 m	■								22MT-145	1324.00
<b>Humidity / Temperature</b>													
Active	0...5 V / 0...10 V	■	140 mm		■		□	■	■	■		22DTH-11M	1221.00
		■	270 mm		■		□	■	■	■		22DTH-11Q	1311.00
	4...20 mA	■	140 mm		■		□	■	■	■		22DTH-13M	1221.00
		■	270 mm		■		□	■	■	■		22DTH-13Q	1311.00
	Modbus RTU		140 mm		■		□	□	□	□		22DTH-15M	1544.00
			270 mm		■		□	□	□	□		22DTH-15Q	1608.00
BACnet MS/TP		140 mm		■		□	□	□	□		22DTH-16M	1544.00	
<b>Humidity (duct humidistat)</b>													
<b>SPDT switch</b>			150 mm								■	01DH-10N	1337.00

□ Factory setting (measuring ranges are adjustable on the sensor).

Further settings and live data can be selected and read out via Bluetooth with the accessory A-22G-A05 (22DTH-15.., 22DTH-16M).

# Air quality, humidity, temperature

## Output signals active, Modbus RTU, BACnet MS/TP

For measuring air quality (CO<sub>2</sub>, humidity, temperature and VOC) in ducts and AHUs.

Power supply	AC/DC 24 V
Degree of protection IEC/EN	IP65 / NEMA 4X
Housing	Plastic, with snap-on cover



22DC..  
22DT..



Measured values		Output signals		Measuring ranges							AED								
				Temperature	Humidity			CO <sub>2</sub>	VOC										
LCD display	Probe length	0...50°C	Relative: 0...100% RH	Absolute: 0...80 g/m <sup>3</sup>	Dew point: -20...80°C	Enthalpy: 0...85 kJ/kg	0...2000 ppm	0...5000 ppm	0...100%	Sensor type									
											<b>CO<sub>2</sub></b>								
Active	0...5 V / 0...10 V	150 mm	■	■	■	■	□	■ <sup>1)</sup>	■	22DC-11	1759.00								
	0...5 V / 0...10 V, 4...20 mA											□	■ <sup>1)</sup>	22DC-13	1819.00				
<b>CO<sub>2</sub> / Temperature</b>																			
Active	0...5 V / 0...10 V	180 mm	■	■	■	■	□	■ <sup>1)</sup>	■	22DTC-11	2210.00								
	0...5 V / 0...10 V, 4...20 mA											□	■ <sup>1)</sup>	22DTC-13	2257.00				
<b>CO<sub>2</sub> / Humidity / Temperature</b>																			
Active	0...5 V / 0...10 V	180 mm	■	■	■	■	□	■ <sup>1)</sup>	■	22DTM-11	2773.00								
	Modbus RTU											■	■ <sup>1)</sup>	22DTM-1106	3173.00				
	BACnet MS/TP											□	□	□	□	□	■ <sup>1)</sup>	22DTM-15	2885.00
												□	□	□	□	□	■ <sup>1)</sup>	22DTM-16	2885.00
<b>CO<sub>2</sub> / VOC</b>																			
Active	0...5 V / 0...10 V	150 mm	■	■	■	■	□	■ <sup>1)</sup>	■	22DCV-11	2868.00								
<b>CO<sub>2</sub> / VOC / Temperature</b>																			
Active	0...5 V / 0...10 V	180 mm	■	■	■	■	□	■ <sup>1)</sup>	■	22DCM-11	3036.00								
<b>CO<sub>2</sub> / VOC / Mix CO<sub>2</sub>/VOC / Temperature</b>																			
Active	0...5 V / 0...10 V	180 mm	■	■	■	■	□	■ <sup>1)</sup>	■	22DCK-11	3435.00								

□ Factory setting (measuring ranges are adjustable on the sensor).

Further settings and live data can be selected and read out via Bluetooth with the accessory A-22G-A05 (22DC-13, 22DTC.., 22DTM.., 22DCV-11, 22DCM-11, 22DCK-11).

<sup>1)</sup> Usable only via bus communication or with Bluetooth dongle (A-22G-A05) and Belimo Duct Sensor Assistant App.

# Frost monitors

## Output signals active, SPDT switch

Reset Manual or automatic  
 Startup function With types 20DTS-..  
 Power supply AC 24 V (types 20DTS-..)



01ATS-..



20DTS-..



A-22D-A12 (optional accessory for 20DTS-..)



Measured values

Output signals

		Capillary tube length	Automatic reset	Manual reset	LED display, red	Adjustment range -10...15°C	Adjustment range 1...10°C	Sensor type	AED
<b>Temperature (frost monitor)</b>									
		3 m	■			■		<b>01ATS-1040B</b>	585.00
		6 m	■			■		<b>01ATS-1050B</b>	636.00
<b>SPDT switch</b>		3 m		■		■		<b>01ATS-104XC</b>	641.00
<b>Passive</b>		6 m		■		■		<b>01ATS-105XC</b>	692.00
<b>Active</b>	0...10 V	2 m	■	■	■		■	<b>20DTS-1P3</b>	1918.00
		6 m	■	■	■		■	<b>20DTS-1P5</b>	1965.00

# Outdoor sensors humidity / temperature

## Output signals active, passive, Modbus RTU, BACnet MS/TP

For measuring temperature or relative humidity and temperature in the outdoor area as well as in demanding indoor applications that require high IP protection – e.g., in cold stores and greenhouses or production halls and warehouses.

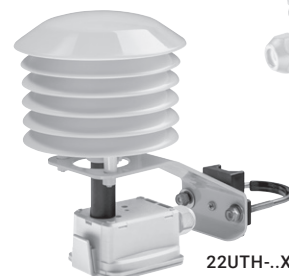
Power supply AC/DC 24 V (active sensors)

Degree of protection IEC/EN IP65 / NEMA 4X

Housing Plastic, with snap-on cover



01UT-..

22UT-..  
01UT-..0X

22UTH-..X



22UTH-..



	Measured values	Measuring ranges											AED										
		Temperature										Humidity											
	Output signals	External sensor probe (short response time)	Multirange	-50...50°C	-40...60°C	-35...50°C	-35...90°C	-20...80°C	-15...35°C	-10...120°C	0...50°C	0...100°C	0...160°C	0...250°C	Relative: 0...100% RH	Absolute: 0...50 g/m <sup>3</sup>	Absolute: 0...80 g/m <sup>3</sup>	Dew point 0...50°C	Dew point: -20...80°C	Enthalpy: 0...85 kJ/kg	Sensor type		
<b>Temperature</b>																							
Passive	Pt100																				01UT-1A	171.00	
																						01UT-1A0X	280.00
	Pt1000																					01UT-1B	166.00
																						01UT-1B0X	280.00
	Ni1000																					01UT-1C	166.00
	Ni1000TK5000																					01UT-1D	192.00
	NTC1k8																					01UT-1F	151.00
	NTC10k (10k2)																					01UT-1L	147.00
NTC10k Carel																					01UT-1N	157.00	
NTC20k																					01UT-1Q	153.00	
Active	0...5 V / 0...10 V																					22UT-12	589.00
	4...20 mA																					22UT-14	589.00
<b>Humidity / Temperature</b>																							
Active	0...5 V / 0...10 V																					22UTH-11	1513.00
	4...20 mA																					22UTH-13	1513.00
	0...5 V / 0...10 V, NTC10k Pre																					22UTH-110M	1746.00
	0...5 V / 0...10 V																					22UTH-110X	2060.00
	4...20 mA																					22UTH-130X	2060.00
	Modbus RTU																					22UTH-150X	2296.00
	BACnet MS/TP																					22UTH-160X	2317.00

□ Factory setting (measuring ranges are adjustable on the sensor or via bus system).

Further settings and live data can be selected and read out via Bluetooth with the accessory A-22G-A05 (22UTH-150X, 22UTH-160X).

# Room sensors / Room operating units

## Output signal passive

For temperature measurement and setting the room temperature setpoint.  
These room units can be seamlessly connected to existing controllers.

Ambient conditions 0...50°C



01RT-1..



P-01RT-1..



	Output signals	Setpoint signal adjustable (resistance Ω)	Measuring range <sup>3)</sup>		AED
			Temperature	Sensor type	
			0...50°C		
<b>Passive room sensors and room operating units</b>					
Passive	Pt1000		■	01RT-1B-0	133.00
	Ni1000		■	01RT-1C-0	133.00
	Ni1000TK5000		■	01RT-1D-0	133.00
	NTC1k8		■	01RT-1F-0	117.00
	NTC10k (10k2)		■	01RT-1L-0	111.00
	NTC10k Carel		■	01RT-1N-0	111.00
	NTC10k Pre (10k3)		■	01RT-1M-0	111.00
	NTC20k		■	01RT-1Q-0	117.00
	Pt1000	0.7...1.3 kΩ	■	P-01RT-1B-0	188.00
	NTC1k8		■	P-01RT-1F-0	182.00
	NTC10k (10k2)	2.5...8.5 kΩ	■	P-01RT-1L-0	175.00
	NTC10k Pre (10k3)		■	P-01RT-1M-0	175.00

# Room sensors / Room operating units

## Output signal active, MP-Bus, Modbus RTU, BACnet MS/TP

For measuring and adjusting the room climate. The active Belimo room operating units P-22RT..-1..D.. are equipped with a razor-sharp ePaper touch display for maximum ease of operation and optimum legibility. In public areas, the displayless room units 22RT..-18-1 (with analogue outputs) and P-22RT..-1U00A-2 (with Modbus RTU, BACnet MS/TP, and MP-Bus) offer an optimal and discreet solution. Thanks to the Belimo Display App, they also provide the full functionality of a room operating unit with high ease of operation and complete access control.

Configuration	Unpowered via NFC
Diagnostics function	Simply via NFC
Ambient conditions	0...50°C, max. 95% RH, non-condensing
Analogue output	0...5 V, 0...10 V, 2...10 V, 4...20 mA (configurable with Belimo Assistant 2)
Setpoint adjustment	Temperature and ventilation control elements



22RT..-18-1  
P-22RT..-1U00A-2



22RT..-18-1B  
P-22RT..-1U00A-2B



P-22RT..-1800D-1  
P-22RT..-1U00D-2



	Output signals	Housing colour White (RAL 9003)	Housing colour Black (RAL 9005)	Analogue output	Input signal	Measuring ranges <sup>1)</sup>			Sensor type	AED		
						Temperature 0...50°C	Humidity 0...100% RH Dew point: -50...50°C	CO <sub>2</sub> 0...2000 ppm				
Active room sensors and room operating units	0...5 V 0...10 V 2...10 V 4...20 mA MP-Bus	■		3		■			22RT-18-1	447.00		
			■		3		■			22RT-18-1B	– <sup>4)</sup>	
		■		3			■	■		22RTH-18-1	666.00	
			■		3			■		22RTH-18-1B	– <sup>4)</sup>	
		■		3			■	■	■	22RTM-18-1	1406.00	
				■		3		■	■	22RTM-18-1B	– <sup>4)</sup>	
		Display app <sup>2)</sup>	Modbus RTU BACnet MS/TP MP-Bus	■			1x DI <sup>3)</sup>	■	■		P-22RTH-1U00A-2	1032.00
					■			■	■		P-22RTH-1U00A-2B	1096.00
				■				■	■	■	P-22RTM-1U00A-2	1685.00
						■			■	■	■	P-22RTM-1U00A-2B
ePaper touch display	0...5 V 0...10 V 2...10 V 4...20 mA MP-Bus	■		3		■			P-22RT-1800D-1	1286.00		
		■		3		■	■		P-22RTH-1800D-1	1475.00		
		■		3		■	■	■	P-22RTM-1800D-1	2214.00		
		■			1x DI <sup>3)</sup>	■	■		P-22RTH-1U00D-2	1746.00		
						■	■	■	P-22RTM-1U00D-2	2442.00		

<sup>1)</sup> Maximum measuring range; infinitely adjustable with Belimo Assistant 2.

<sup>2)</sup> For the display of current room values and the adjustment of setpoints via smartphone. More information on [page 34](#).

<sup>3)</sup> Digital input.

<sup>4)</sup> Price on request.

# Duct and immersion sensors temperature

## Output signal passive

01DT-..., 22DT-..

When used as an immersion sensor for pipe installations (liquid lines), a thermowell is recommended as an optional accessory.

Degree of protection IEC/EN IP65 / NEMA 4X

Housing Plastic, with snap-on cover



01DT-..

A-22P-...  
(optional accessory  
for 01DT-..., 22DT-..)

	Measured values	Output signals	Probe length	Measuring ranges		Sensor type	AED		
				Temperature					
				-50...150°C	-50...160°C				
Passive	Temperature (duct, pipe)								
			50 mm		■	01DT-1CH	227.00		
			100 mm		■	01DT-1CL	227.00		
		Ni1000		150 mm		■	01DT-1CN	240.00	
				200 mm		■	01DT-1CP	240.00	
				300 mm		■	01DT-1CR	257.00	
				450 mm		■	01DT-1CT	274.00	
			Ni1000TK5000		50 mm		■	01DT-1DH	257.00
					100 mm		■	01DT-1DL	257.00
				150 mm		■	01DT-1DN	266.00	
				200 mm		■	01DT-1DP	266.00	
				300 mm		■	01DT-1DR	287.00	
		NTC10k (10k2)		450 mm		■	01DT-1DT	304.00	
				50 mm	■		01DT-1LH	214.00	
				100 mm	■		01DT-1LL	214.00	
				150 mm	■		01DT-1LN	227.00	
				200 mm	■		01DT-1LP	227.00	
		NTC10k Carel		300 mm	■		01DT-1LR	240.00	
				450 mm	■		01DT-1LT	257.00	
				50 mm	■		01DT-1NH	232.00	
				100 mm	■		01DT-1NL	232.00	
				150 mm	■		01DT-1NN	244.00	
		NTC10k Pre (10k3)		200 mm	■		01DT-1NP	244.00	
				300 mm	■		01DT-1NR	261.00	
				50 mm	■		01DT-1MH	224.00	
				100 mm	■		01DT-1ML	224.00	
				150 mm	■		01DT-1MN	236.00	
		NTC1k8		200 mm	■		01DT-1MP	236.00	
				300 mm	■		01DT-1MR	252.00	
				100 mm	■		01DT-1FL	234.00	
	150 mm		■		01DT-1FN	246.00			
	200 mm		■		01DT-1FP	246.00			
	300 mm	■		01DT-1FR	262.00				
	450 mm	■		01DT-1FT	275.00				

# Duct and immersion sensors temperature

## Output signals passive and active

01DT-..., 22DT-... When used as an immersion sensor for pipe installations (liquid lines), a thermowell is recommended as an optional accessory.

Degree of protection IEC/EN IP65 / NEMA 4X

Housing Plastic, with snap-on cover



01DT-...  
22DT-...



A-22P-...  
(optional accessory  
for 01DT-..., 22DT-...)



	Measured values	Output signals	Multirange	Probe length	Measuring ranges		Sensor type	AED	
					-50...160°C	-50...150°C			
<b>Temperature (duct, pipe)</b>									
<b>Passive</b>	NTC20k			50 mm		■	01DT-1QH	234.00	
				100 mm		■	01DT-1QL	234.00	
				150 mm		■	01DT-1QN	246.00	
				200 mm		■	01DT-1QP	246.00	
				300 mm		■	01DT-1QR	262.00	
				450 mm		■	01DT-1QT	275.00	
		NTC5k			200 mm		■	01DT-1HP	227.00
					50 mm	■		01DT-1AH	236.00
		Pt100			100 mm	■		01DT-1AL	236.00
					150 mm	■		01DT-1AN	244.00
				200 mm	■		01DT-1AP	244.00	
				300 mm	■		01DT-1AR	261.00	
				450 mm	■		01DT-1AT	279.00	
	Pt1000			50 mm	■		01DT-1BH	227.00	
				100 mm	■		01DT-1BL	227.00	
				150 mm	■		01DT-1BN	240.00	
				200 mm	■		01DT-1BP	240.00	
				300 mm	■		01DT-1BR	257.00	
				450 mm	■		01DT-1BT	274.00	
		Pt1000 Class AA			50 mm	■		01DT-1RH	245.00
				100 mm	■		01DT-1RL	245.00	
				150 mm	■		01DT-1RN	257.00	
				200 mm	■		01DT-1RP	257.00	
<b>Active</b>	0...5 V / 0...10 V		■	300 mm	■		01DT-1RR	274.00	
			■	50 mm	■		22DT-12H	520.00	
			■	100 mm	■		22DT-12L	520.00	
			■	150 mm	■		22DT-12N	537.00	
			■	200 mm	■		22DT-12P	537.00	
			■	300 mm	■		22DT-12R	555.00	
	4...20 mA		■	450 mm	■		22DT-12T	572.00	
			■	50 mm	■		22DT-14H	520.00	
			■	100 mm	■		22DT-14L	520.00	
			■	150 mm	■		22DT-14N	537.00	
			■	200 mm	■		22DT-14P	537.00	
			■	300 mm	■		22DT-14R	555.00	
			■	450 mm	■		22DT-14T	572.00	

S/M

Included and optional accessories starting on **page 25**

List prices excl. VAT / 2026 – Subject to alterations in price and technical modifications

# Duct and immersion sensors temperature



## Output signal passive

01PT-..	For pipe installations with short response time, no additional thermowell required.
Degree of protection IEC/EN	IP65 / NEMA 4X
Housing	Plastic, with snap-on cover

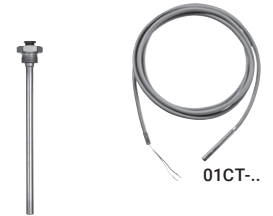


	Measured values	Output signals	Probe length	Measuring ranges		Sensor type	AED
				-50...150°C	-50...160°C		
<b>Temperature (pipe)</b>							
<b>Passive</b>	Ni1000TK5000		50 mm		■	<b>01PT-1DH</b>	429.00
			100 mm		■	<b>01PT-1DL</b>	429.00
			200 mm		■	<b>01PT-1DP</b>	456.00
	NTC10k (10k2)		50 mm	■		<b>01PT-1LH</b>	384.00
			100 mm	■		<b>01PT-1LL</b>	384.00
			200 mm	■		<b>01PT-1LP</b>	411.00
	Pt1000		50 mm		■	<b>01PT-1BH</b>	402.00
			100 mm		■	<b>01PT-1BL</b>	407.00
			200 mm		■	<b>01PT-1BP</b>	424.00

# Cable sensors temperature

## Output signals passive and active

Power supply	AC/DC 24 V (active sensors)
Cable length	2 m
Degree of protection IEC/EN	IP65 / NEMA 4X
Housing	Plastic, with snap-on cover



A-22P-..  
(optional accessory)



Measured values		Output signals		Multirange	Probe length	Mounting flange inclusive	Measuring ranges		Sensor type	AED	
							Temperature				
							-50...160°C	-35...100°C			
<b>Temperature</b>											
<b>Passive</b>	Ni1000				50 mm				■	01CT-1CH	96.00
					100 mm	■			■	01CT-1CLF	152.00
					200 mm	■			■	01CT-1CPF	158.00
	Ni1000TK5000				50 mm				■	01CT-1DH	117.00
					100 mm	■			■	01CT-1DLF	176.00
					200 mm	■			■	01CT-1DPF	180.00
	NTC10k (10k2)				50 mm				■	01CT-1LH	80.00
					100 mm	■			■	01CT-1LLF	136.00
					200 mm	■			■	01CT-1LPF	141.00
	NTC1k8				50 mm				■	01CT-1FH	88.00
					50 mm				■	01CT-1QH	88.00
	NTC20k				100 mm	■			■	01CT-1QLF	143.00
					200 mm	■			■	01CT-1QPF	148.00
	Pt100				50 mm				■	01CT-1AH	96.00
				100 mm	■			■	01CT-1ALF	152.00	
Pt1000				200 mm	■			■	01CT-1APF	159.00	
				50 mm				■	01CT-1BH	95.00	
				100 mm	■			■	01CT-1BLF	149.00	
Pt1000 Class AA				200 mm	■			■	01CT-1BPF	159.00	
				200 mm				■	01CT-1RH	112.00	
<b>Active</b>	0...5 V / 0...10 V	■		50 mm			■		22CT-12H	520.00	
	4...20 mA	■		50 mm			■		22CT-14H	520.00	

□ Factory setting (measuring ranges are adjustable on the sensor).

# Safety temperature limiter STB / Temperature monitor TW

## Output signal SPDT switch

Switch contact	1x SPDT, AC 230 V, 16 A
Switching value	Control window in the housing cover
Mounting	Pipe contact, thermowell or wall mounting
Pipe contact mounting	Fixing strap, included
Electrical connection	Spring loaded terminal blocks
Reset	Manual for safety temperature limiter STB Automatic for temperature monitor TW
Capillary fracture protection	For safety temperature limiter STB



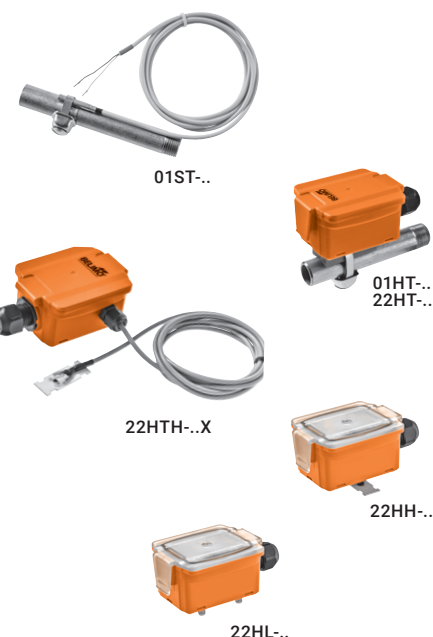
Measured values Output signals	Safety temperature limiter STB	Temperature monitor TW	Automatic reset	Manual reset	Capillary tube length	Capillary fracture protection	Application			Setpoint range			Sensor type	AED
							Heating water	Water vapour	Fire protection thermostat in the duct	30...90°C	50...80°C	70...130°C		
<b>Temperature – STB</b>														
SPDT switch	■			■	1 m	■	■		■				EXT-J-00734645	499.00
	■			■	1 m	■		■				■	EXT-J-00734647	499.00
<b>Temperature – TW</b>														
SPDT switch		■	■		1 m		■			■			01HT-101CA	464.00

# Contact sensors temperature / condensation

## Output signals active, passive or SPDT switch

For temperature measurement on pipes and curved surfaces (ST-.., HT-.. types) or for detecting condensation on chilled surfaces (22HH-.. types).

Power supply AC/DC 24 V (active sensors)  
Degree of protection IEC/EN IP65 / NEMA 4X  
Housing Plastic, with snap-on cover



Measured values		Measuring ranges							AED			
Output signals		Temperature										
		Multirange	Sensor cable 2 m	Sensor cable 7 m	Sensor cable 12 m	LED signalling	-35...70°C	-35...90°C	-35...100°C	-20...60°C	Sensor type	
<b>Temperature</b>												
	Ni1000		■						■		01ST-1C3	111.00
								■			01HT-1C	195.00
	Ni1000TK5000		■						■		01ST-1D3	135.00
								■			01HT-1D	219.00
	NTC10k (10k2)		■						■		01ST-1L3	95.00
								■			01HT-1L	181.00
<b>Passive</b>	NTC1k8		■						■		01ST-1F3	111.00
								■			01HT-1F	195.00
	NTC20k		■						■		01ST-1Q3	111.00
								■			01HT-1Q	182.00
	Pt100		■						■		01ST-1A3	111.00
								■			01HT-1A	195.00
	Pt1000		■						■		01ST-1B3	110.00
								■			01HT-1B	195.00
<b>Active</b>	0...5 V / 0...10 V	■					■			■	22HT-12	542.00
	4...20 mA	■					■			■	22HT-14	542.00
<b>Humidity / Temperature</b>												
<b>Active</b>	0...5 V / 0...10 V	■	■							■	22HTH-110X	1324.00
<b>Condensation</b>												
									■		22HH-10	757.00
<b>SPDT switch</b>			■						■		22HH-100X	864.00
				■					■		22HH-100S-6	1015.00
					■				■		22HH-100S-7	1041.00
<b>Leakage</b>												
<b>SPDT switch</b>								■			22HL-10	757.00

S/M

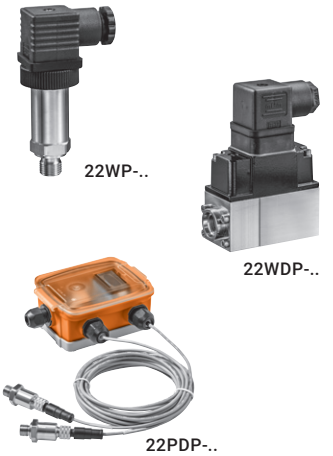
Included and optional accessories starting on [page 25](#)

List prices excl. VAT / 2026 – Subject to alterations in price and technical modifications

# Pressure sensors

## Output signal active

Power supply	AC/DC 24 V (types with voltage output) DC 24 V (types with current output)
Degree of protection IEC/EN	22WP-../22WDP-...: IP65 / NEMA 4 22PDP-...: IP65
Housing	22WP-../22WDP-...: metal 22PDP-...: pressure transmitter metal, sensor housing plastic
Cable entry	22WP-...: MVS plug according to DIN EN 175301-803 / Type A 22WDP-...: Angled plug according to DIN 43650 / Type A
Cable gland	PA6, black



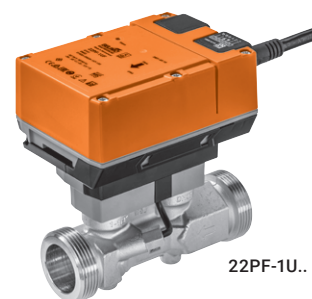
	Measured values		Measuring ranges											AED		
	Output signals		Pressure													
	Water	Refrigerants	Water-glycol mixtures (<50% vol.)	LCD display	0...1 bar	0...2.5 bar	0...4 bar	0...5 bar	0...6 bar	0...10 bar	0...16 bar	0...25 bar	0...35 bar	Sensor type		
<b>Pressure</b>																
Active	0...10 V	■	■	■			■							22WP-114	907.00	
		■	■	■						■				22WP-115	907.00	
		■	■	■								■			22WP-116	907.00
	4...20 mA	■	■	■									■		22WP-117	907.00
		■	■	■									■		22WP-119	989.00
		■	■	■			■								22WP-134	864.00
		■	■	■						■					22WP-135	864.00
Active	0...10 V	■	■	■										22WP-136	864.00	
		■	■	■							■			22WP-137	864.00	
	4...20 mA	■	■	■									■		22WP-139	946.00
		■	■	■										■		
<b>Differential pressure</b>																
Active	0...5 V / 0...10 V, 4...20 mA	■	■	■	■				■					22PDP-185	4321.00	
		■	■	■	■							■		22PDP-186	4321.00	
		■	■	■	■									■	22PDP-189	4321.00
	0...10 V	■	■	■		■									22WDP-111	2747.00
		■	■	■			■								22WDP-112	2747.00
		■	■	■				■							22WDP-114	2747.00
	4...20 mA	■	■	■						■					22WDP-115	2747.00
		■	■	■											22WDP-131	2747.00
		■	■	■			■								22WDP-132	2747.00
		■	■	■				■							22WDP-134	2747.00
									■				22WDP-135	2747.00		

# Flow sensors with glycol compensation

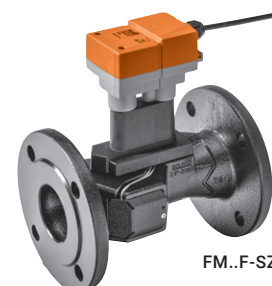
## Output signal active

Ultrasonic flow sensor for water and water-glycol mixtures.  
Determination of the glycol content and corresponding compensation.

Power supply	AC/DC 24 V
Degree of protection IEC/EN	IP54
Nominal pressure	22PF..: PN 25 FM..: PN 16
Connection	Cable 1 m, 6x 0.75 mm <sup>2</sup>
Analogue output	22PF..: 0...10 V, 0.5...10 V, 2...10 V or user defined FM..: 0.5...10 V
Converter for sensors	22PF..: optional connection of an active sensor with output 0...10 V or a switching contact for transmission to bus system
Communication	22PF..: MP-Bus, Modbus RTU, BACnet MS/TP
Accumulation	22PF..: flow can be accumulated over time
Configuration, diagnostics	22PF..: via NFC with Belimo Assistant 2



22PF-1U..



FM..F-SZ



### Measured values

	DN	PN	G	Installation length	Maximum flow rate, FS <sup>1)</sup>	Water	Water-glycol mixtures (≤60% vol.)	Sensor type	AED
<b>Flow, temperature</b>									
<b>0...10 V</b> <b>0.5...10 V</b> <b>2...10 V</b> <b>User defined</b>	15	25	3/4"	110 mm	1.8 m <sup>3</sup> /h	■	■	<b>22PF-1UC</b>	2674.00
	20		1"	130 mm	3.0 m <sup>3</sup> /h	■	■	<b>22PF-1UD</b>	2760.00
	25		1 1/4"	135 mm	4.2 m <sup>3</sup> /h	■	■	<b>22PF-1UE</b>	2851.00
	32		1 1/2"	140 mm	7.2 m <sup>3</sup> /h	■	■	<b>22PF-1UF</b>	2980.00
	40		2"	145 mm	12 m <sup>3</sup> /h	■	■	<b>22PF-1UG</b>	3160.00
	50		2 1/2"	145 mm	18 m <sup>3</sup> /h	■	■	<b>22PF-1UH</b>	3332.00
<b>Flow</b>									
<b>0.5...10 V</b>	65	16	Flange	240 mm	34.6 m <sup>3</sup> /h	■	■	<b>FM065F-SZ</b>	5022.00
	80			260 mm	49.0 m <sup>3</sup> /h	■	■	<b>FM080F-SZ</b>	5512.00
	100			262 mm	86.4 m <sup>3</sup> /h	■	■	<b>FM100F-SZ</b>	6007.00
	125			314 mm	135.0 m <sup>3</sup> /h	■	■	<b>FM125F-SZ</b>	6492.00
	150			334 mm	194.4 m <sup>3</sup> /h	■	■	<b>FM150F-SZ</b>	6983.00

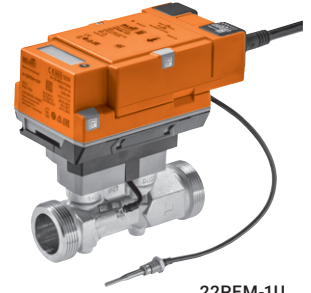
**Note:** The flow sensors FM..F-SZ will be replaced by new types 22PF-1U.. over the course of the year.  
Please also order the required accessories – Starting on **page 30**.

<sup>1)</sup> FS = full scale.

S/M

# Thermal energy meters according to EN 1434 with MID approval

## Communication via MP-Bus, Modbus, BACnet, M-Bus (with converter)



22PEM-1U..

Ultrasonic energy meters for reliable determination and billing of energy consumption.

Use as heat, cooling or heat/cooling meter and in the supply or return.

The thermal energy meters comply with the requirements of EN 1434 and have a type approval as heat meters according to the European Measuring Instruments Directive 2014/32/EU (MI-004).

Power supply	AC/DC 24 V or PoE (Power over Ethernet)
Degree of protection IEC/EN	IP54
Nominal pressure	PN 25
Connection	Cable 1 m, 6x 0.75 mm <sup>2</sup> and RJ45 connector socket
Analogue output	Adjustable 0...10 V, 0.5...10 V, 2...10 V or user defined. E.g. the flow rate or the temperature of the temperature sensor T1/T2 can be output.
Converter for sensors	Optional connection of a passive sensor (Pt1000, Ni1000, NTC10k), an active sensor with output 0...10 V or a switching contact for transfer to bus system
Thermal energy display	Via LCD display and via communication
Communication	MP-Bus, Modbus RTU, Modbus TCP, BACnet MS/TP, BACnet/IP, M-Bus (with converter G-22PEM-A01), NFC
Configuration, diagnostics	Via integrated web server and with Belimo Assistant 2

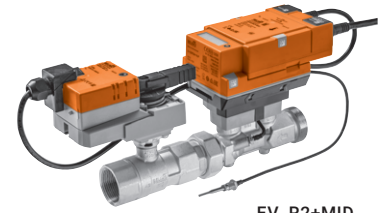


### Measured values

	DN	G	Installation length	Nominal flow qp	Maximum flow qs	Pressure drop Δp@qp	Water	Meter type	AED
<b>Thermal energy, flow, temperature</b>									
	15	3/4"	110 mm	1.5 m <sup>3</sup> /h	3 m <sup>3</sup> /h	15 kPa	■	<b>22PEM-1UC</b>	5512.00
<b>0...10 V</b>	20	1"	130 mm	2.5 m <sup>3</sup> /h	5 m <sup>3</sup> /h	12 kPa	■	<b>22PEM-1UD</b>	6170.00
<b>0.5...10 V</b>	25	1 1/4"	135 mm	3.5 m <sup>3</sup> /h	7 m <sup>3</sup> /h	7 kPa	■	<b>22PEM-1UE</b>	6832.00
<b>2...10 V</b>	32	1 1/2"	140 mm	6 m <sup>3</sup> /h	12 m <sup>3</sup> /h	14 kPa	■	<b>22PEM-1UF</b>	7494.00
<b>User defined</b>	40	2"	145 mm	10 m <sup>3</sup> /h	20 m <sup>3</sup> /h	18 kPa	■	<b>22PEM-1UG</b>	8238.00
	50	2 1/2"	145 mm	15 m <sup>3</sup> /h	30 m <sup>3</sup> /h	22 kPa	■	<b>22PEM-1UH</b>	8947.00

**Note:** Please also order the required accessories – Starting on [page 30](#).

# Belimo Energy Valve™ according to EN 1434 with MID approval



EV..R2+MID

Field of use	Closed water systems (pH >7)
Fluid temperature	-10...120°C (-10...2°C valve neck extension or spindle heater recommended)
Fluid temperature note	MID-certified 15...120°C
Pipe connection	Internal thread Rp (ISO 7-1) and external thread G (ISO 228-1)
Leakage rate	Air-bubble tight, leakage rate A (EN 12266-1)
Permissible operating pressure	p <sub>S</sub> : 1600 kPa
V' <sub>max</sub>	Adjustable 25...100% of V' <sub>nom</sub>
The thermal energy meters comply with the requirements of EN 1434 and have a type approval as heat meters according to the European Measuring Instruments Directive 2014/32/EU (MI-004).	
Configurable using the integrated web server or Belimo Assistant 2	
Optional connection to the Belimo Cloud	
Sensor-operated flow or power control	

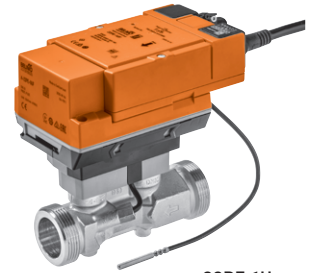


PN	DN	G	Rp	V' <sub>nom</sub> [l/s]	V' <sub>nom</sub> [l/min]	V' <sub>nom</sub> [m <sup>3</sup> /h]	qp [m <sup>3</sup> /h]	Nominal voltage AC/DC 24 V	Modulating (2...10 V, adjustable)	Communication MP-Bus	Communication Modbus	Communication BACnet	Valve type with actuator	AED
<b>Standard actuators</b>														
25	15	3/4"	1/2"	0.42	25	1.5	1.5	24 V	■	■	■	■	EV015R2+MID	7627.00
	20	1"	3/4"	0.69	41.7	2.5	2.5		■	■	■	■	EV020R2+MID	7795.00
	25	1 1/4"	1"	0.97	58.3	3.5	3.5		■	■	■	■	EV025R2+MID	8010.00
	32	1 1/2"	1 1/4"	1.67	100	6	6		■	■	■	■	EV032R2+MID	8857.00
	40	2"	1 1/2"	2.78	166.7	10	10		■	■	■	■	EV040R2+MID	9816.00
	50	2 1/2"	2"	4.17	250	15	15		■	■	■	■	■	EV050R2+MID

S/M

# Thermal energy meters with glycol compensation

## Communication via MP-Bus, Modbus, BACnet, M-Bus (with converter)



22PE-1U..

Ultrasonic energy meters for reliable determination of energy consumption in systems with water and water-glycol mixtures.

Continuous, automatic measurement and compensation of the glycol content.

Use as heat, cooling or heat/cooling meter and in the supply or return.

Power supply	AC/DC 24 V or PoE (Power over Ethernet)
Degree of protection IEC/EN	IP54
Nominal pressure	PN 25
Connection	Cable 1 m, 6x 0.75 mm <sup>2</sup> and RJ45 connector socket
Analogue output	Adjustable 0...10 V, 0.5...10 V, 2...10 V or user defined. E.g. the flow rate or the temperature of the temperature sensor T1/T2 can be output.
Converter for sensors	Optional connection of a passive sensor (Pt1000, Ni1000, NTC10k), an active sensor with output 0...10 V or a switching contact for transfer to bus system
Thermal energy display	Via communication
Communication	MP-Bus, Modbus RTU, Modbus TCP, BACnet MS/TP, BACnet/IP, M-Bus (with converter G-22PEM-A01), NFC
Configuration, diagnostics	Via integrated web server and with Belimo Assistant 2






### Measured values

	DN	G	Installation length	Nominal flow qp	Maximum flow qs	Pressure drop Δp@qp	Water	Water-glycol mixtures (≤60% vol.)	Meter type	AED
<b>Thermal energy, flow, temperature</b>										
0...10 V	15	3/4"	110 mm	1.5 m <sup>3</sup> /h	3 m <sup>3</sup> /h	15 kPa	■	■	<b>22PE-1UC</b>	5069.00
	20	1"	130 mm	2.5 m <sup>3</sup> /h	5 m <sup>3</sup> /h	12 kPa	■	■	<b>22PE-1UD</b>	5684.00
0.5...10 V	25	1 1/4"	135 mm	3.5 m <sup>3</sup> /h	7 m <sup>3</sup> /h	7 kPa	■	■	<b>22PE-1UE</b>	6303.00
2...10 V	32	1 1/2"	140 mm	6 m <sup>3</sup> /h	12 m <sup>3</sup> /h	14 kPa	■	■	<b>22PE-1UF</b>	6944.00
User defined	40	2"	145 mm	10 m <sup>3</sup> /h	20 m <sup>3</sup> /h	18 kPa	■	■	<b>22PE-1UG</b>	7567.00
	50	2 1/2"	145 mm	15 m <sup>3</sup> /h	30 m <sup>3</sup> /h	22 kPa	■	■	<b>22PE-1UH</b>	8238.00




**Note:** Please also order the required accessories – Starting on **page 30**.

## Adapters and pipe connector kits

		For sensors				
		ø	22WDP-..	22WP-..	Type	AED/pc.
	<b>Reduction adapter</b> G 1/4" (internal thread) to G 1/2" (external thread)			■	<b>A-22WP-A02</b>	91.00
	<b>Pipe connector</b> Stainless steel Pipe 6 and 8 mm to G 1/4" (external thread) Set of 2 pcs.	6 mm	■		<b>A-22WP-A06</b> <sup>1)</sup>	559.00
		8 mm	■		<b>A-22WP-A10</b> <sup>1)</sup>	658.00
	<b>Pipe connector</b> Brass Pipe 6 and 8 mm to G 1/4" (external thread) Set of 2 pcs.	6 mm	■		<b>A-22WP-A04</b> <sup>1)</sup>	287.00
		8 mm	■		<b>A-22WP-A08</b> <sup>1)</sup>	291.00

<sup>1)</sup> The price shown is per set.



## Connection adapters

		For sensors																						
		01APS-..	01DT-..	01HT-..	01MT-..	01PT-..	01UT-..	22ADP-..	22CT-..	22DC-..	22DCK-..	22DCM-..	22DCV-..	22DT-..	22DTC-..	22DTH-..	22DTM-..	22HH-..	22HT-..	22MT-..	22UT-..	22UTH-..	Type	AED/pc.
	<b>Connection adapter M20</b> For cable 1x 6 mm Multipack (10 pcs.)	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	<b>A-22G-A01.1</b> <sup>1)</sup>	21.00
	<b>Connection adapter M20</b> For cable 2x 6 mm Multipack (10 pcs.)	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	<b>A-22G-A02.1</b> <sup>1)</sup>	22.00
	<b>Cable entry M20x1.5</b> Multipack (10 pcs.)	■																					<b>A-22AP-A11.1</b> <sup>1)</sup>	14.00

<sup>1)</sup> The price shown is per piece.




S/M

## Cable glands

		For sensors																					
		01DT-..	01HT-..	01MT-..	01PT-..	01UT-..	22ADP-..	22CT-..	22DC-..	22DCK-..	22DCM-..	22DCV-..	22DT-..	22DTC-..	22DTH-..	22DTM-..	22HH-..	22HT-..	22MT-..	22UT-..	22UTH-..	Type	AED/pc.
	<b>Plug-in cable gland</b> For cable 1x 6...8 mm Multipack (10 pcs.)	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	A-22G-A25.1 <sup>1)</sup>	14.00
	<b>Plug-in cable gland</b> For cable 2x 6 mm Multipack (10 pcs.)	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	A-22G-A26.1 <sup>1)</sup>	32.00





<sup>1)</sup> The price shown is per piece.

## Fixing straps and thermal contact fluid

		For sensors						
		01HT-..	01ST-..	22HH-..	22HH-..,X	22HT-..	Type	AED/pc.
	<b>Fixing strap</b> For pipes ø20...110 mm	□	□			□	A-22P-A47	18.00
	<b>Fixing strap</b> For pipes ø20...250 mm	■	■			■	A-22P-A49	38.00
	<b>Syringe with thermal contact fluid</b>	■	■	□	□	■	A-22P-A44	15.00






□ Accessories included at the factory.

## Mounting flanges

		For sensors											Type	AED/pc.		
		ø	01CT-..	01CT-..F	01DT-..	20DTS-..	22DC-..	22DCK-..	22DCM-..	22DCV-..	22DT-..	22DTC-..	22DTH-..	22DTM-..		
	<b>Mounting flange</b> Plastic For sensor probe 6 mm Up to max. 120°C	4...7 mm	■	□	■						■				A-22D-A03	53.00
	<b>Mounting flange</b> Brass For sensor probe 6 mm Up to max. 260°C	6 mm			■										A-22D-A05	109.00
	<b>Mounting flange</b> Plastic For frost monitor 20DTS-..					■									A-22D-A12	122.00
	<b>Mounting flange</b> Plastic For duct sensor 19.5 mm Up to max. 120°C	20 mm					□	□	□	□		□	□	□	A-22D-A35	89.00




□ Accessories included at the factory.

## Mounting accessories

		For sensors											Type	AED/pc.	
		01APS-..	01ATS-..	01DT-..	01UT-..	22ADP-..	22CT-..	22DT-..	22HH-..	22MT-..	22UT-..	22UTH-..	22WDP-..		
	<b>Mounting clip</b> With screws and adhesive foil			□				□						A-22D-A11	15.00
	<b>Mounting plate</b> S housing			■	□		□	■	□	□	□			A-22D-A09	35.00
	<b>Mounting plate</b> L housing					□						□		A-22D-A10	45.00
	<b>Mounting kit</b> With 6 retaining brackets		□							□				A-22D-A08	74.00
	<b>Mounting brackets</b> S form for 01APS-.., metal	■												A-22AP-A07	31.00
	<b>Mounting brackets</b> L form for 01APS-.., metal	■												A-22AP-A06	31.00
	<b>Mounting brackets</b> For 22WDP-.., metal											□		A-22WP-A11	109.00



□ Accessories included at the factory.

## Thermowells and compression fittings

		Sleeve length	For sensors										Type	AED/pc.			
			01DT...H	01DT...L	01DT...N	01DT...P	01DT...R	01DT...T	22DT...H	22DT...L	22DT...N	22DT...P			22DT...R	22DT...T	
	<b>Thermowell</b> Stainless steel G 1/2", SW27	50 mm	■	□					■							<b>A-22P-A06</b>	179.00
		100 mm		■	□						■					<b>A-22P-A08</b>	185.00
		150 mm			■	□						■				<b>A-22P-A10</b>	201.00
		200 mm				■							■			<b>A-22P-A12</b>	214.00
		250 mm					□							□		<b>A-22P-A29</b>	227.00
		300 mm						■							■	<b>A-22P-A14</b>	235.00
		450 mm							■							<b>A-22P-A16</b>	253.00
	<b>Thermowell</b> Brass R 1/2", SW22	50 mm	■							■	□				<b>A-22P-A18</b>	89.00	
		100 mm		■							■	□			<b>A-22P-A20</b>	87.00	
		150 mm			■							■	□		<b>A-22P-A22</b>	96.00	
		200 mm				■							■		<b>A-22P-A24</b>	106.00	
		250 mm					□							□	<b>A-22P-A30</b>	112.00	
		300 mm						■							■	<b>A-22P-A26</b>	120.00
		450 mm							■						■	<b>A-22P-A28</b>	136.00
	<b>Cold barrier</b> Plastic L 50 mm For thermowell A-22P-A..				■	■	■	■	■	■	■	■	■	■	<b>A-22P-A51</b>	120.00	
	<b>Compression fitting</b> Stainless steel G 1/4" (external thread) for 6 mm With cutting ring		■	■	■	■	■	■	■	■	■	■	■	■	<b>A-22P-A45</b>	151.00	
	<b>Adapter for Siemens thermowell</b> Plastic With thermal contact fluid				■	■	■	■			■	■	■	■	<b>A-22P-A53</b>	183.00	

□ When a cold barrier is used.

## Thermowell kits

		Sleeve length	For sensors			Type	AED/pc.
			01HT-101CA	EXT-J-00734645	EXT-J-00734647		
	<b>Thermowell kit</b> Nickel-plated brass For sensor probe 6 mm Incl. probe fastening material G 1/2", SW22	100 mm	■	■	■	<b>A-22P-A61</b>	114.00
		150 mm	■	■	■	<b>A-22P-A62</b>	125.00
		200 mm	■	■	■	<b>A-22P-A63</b>	146.00
	<b>Thermowell kit</b> Stainless steel For sensor probe 6 mm Incl. probe fastening material G 1/2", SW22	100 mm	■	■	■	<b>A-22P-A64</b>	182.00
		150 mm	■	■	■	<b>A-22P-A65</b>	200.00
		200 mm	■	■	■	<b>A-22P-A66</b>	273.00



## Accessories for differential pressure sensors air

		For sensors				
		Length	01APS-..	22ADP-..	Type	AED/pc.
	<b>Duct connector</b> Metal Tube connection 5 mm	40 mm	■	■	A-22AP-A02	47.00
	<b>Duct connector</b> Metal Tube connection 5 mm	100 mm	■	■	A-22AP-A04	62.00
	<b>Duct connector</b> Plastic Tube connection 6 mm Multipack (90 pcs.)	80 mm	■		A-22AP-A09.1 <sup>1)</sup>	4.40
	<b>Duct connector kit</b> PVC tube 2 m 2 duct connectors, plastic	2000 mm	■	□	A-22AP-A08	33.00
	<b>Duct connector kit</b> PVC tube 2 m 2 duct connectors, plastic Multipack (50 pcs.)	2000 mm	□		A-22AP-A05.1 <sup>1)</sup>	18.00

□ Accessories included at the factory.



<sup>1)</sup> The price shown is per unit.

## Accessories for humidity sensors





		For sensors			
		22DTH-..	22UTH-..	Type	AED/pc.
	<b>Replacement filter</b> Stainless steel Wire mesh	■	■	A-22D-A06	46.00
	<b>Rain cover</b> For 22UTH-11 and 22UTH-13		■	A-22U-A01	45.00

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## Insulation shells

	DN	2-way	For sensors and meters		For valves	Type	AED/pc.
			22PE..	22PF-1U..	EV..R2+MID		
 <b>Insulation shell for Belimo Energy Valve™</b> Only for non-condensing applications Included in the scope of delivery for the device	15...25	■			■	<b>Z-INSH15</b>	157.00
	32...50	■			■	<b>Z-INSH32</b>	184.00
 <b>Insulation shell for thermal energy meters and flow sensors</b> Only for non-condensing applications Included in the scope of delivery for the device	15...25	■	■	■		<b>A-22PEM-A01</b>	118.00
	32...50	■	■	■		<b>A-22PEM-A02</b>	129.00



## MID accessory kits

	DN	G	Rp	Fitting piece length	For meters		For valves	Type	AED/pc.
					22PEM-1U..	EV..R2+MID			
 <b>MID accessory kit without fitting piece</b> Consisting of open/close valve (2x) and ball valve with measuring port M10x1 for external direct immersion temperature sensor T1	15	3/4"	1/2"		■			<b>EXT-EF-15A</b>	477.00
	20	1"	3/4"		■			<b>EXT-EF-20A</b>	546.00
	25	1 1/4"	1"		■			<b>EXT-EF-25A</b>	752.00
	32	1 1/2"	1 1/4"		■			<b>EXT-EF-32A</b>	1647.00
	40	2"	1 1/2"		■			<b>EXT-EF-40A</b>	2253.00
	50	2 1/2"	2"		■			<b>EXT-EF-50A</b>	3478.00
 <b>MID accessory kit with fitting piece</b> Consisting of open/close valve (2x) and ball valve with measuring port M10x1 for external direct immersion temperature sensor T1	15	3/4"	1/2"	110 mm	■			<b>EXT-EF-15B</b>	727.00
	20	1"	3/4"	130 mm	■			<b>EXT-EF-20B</b>	912.00
	25	1 1/4"	1"	135 mm	■			<b>EXT-EF-25B</b>	1169.00
	32	1 1/2"	1 1/4"	140 mm	■			<b>EXT-EF-32B</b>	2098.00
	40	2"	1 1/2"	145 mm	■			<b>EXT-EF-40B</b>	2782.00
	50	2 1/2"	2"	145 mm	■			<b>EXT-EF-50B</b>	4123.00
 <b>MID accessory kit Belimo Energy Valve™</b> Consisting of open/close valve and ball valve with measuring port M10x1 for external direct immersion temperature sensor T1	15	3/4"	1/2"				■	<b>EXT-EF-15C</b>	353.00
	20	1"	3/4"				■	<b>EXT-EF-20C</b>	393.00
	25	1 1/4"	1"				■	<b>EXT-EF-25C</b>	537.00
	32	1 1/2"	1 1/4"				■	<b>EXT-EF-32C</b>	1286.00
	40	2"	1 1/2"				■	<b>EXT-EF-40C</b>	1728.00
	50	2 1/2"	2"				■	<b>EXT-EF-50C</b>	2640.00
 <b>MID accessory kit Belimo Energy Valve™</b> Consisting of ball valve with measuring port M10x1 for external direct immersion temperature sensor T1	15		1/2"		■		■	<b>EXT-EF-15E</b>	199.00
	20		3/4"		■		■	<b>EXT-EF-20E</b>	215.00
	25		1"		■		■	<b>EXT-EF-25E</b>	306.00
	32		1 1/4"		■		■	<b>EXT-EF-32E</b>	894.00
	40		1 1/2"		■		■	<b>EXT-EF-40E</b>	1238.00
	50		2"		■		■	<b>EXT-EF-50E</b>	1432.00

## Open/close valves and pipe connectors



	DN	G	Rp	For sensors and meters			For valves	Type	AED/pc.
				22PE-1U..	22PEM-1U..	22PF-1U..	EV..R2+MID		
 <b>Open/close valve</b> Nickel-plated brass With sealing hole	15	3/4"	1/2"	■	■	■	■	EXT-EF-15G	200.00
	20	1"	3/4"	■	■	■	■	EXT-EF-20G	237.00
	25	1 1/4"	1"	■	■	■	■	EXT-EF-25G	312.00
	32	1 1/2"	1 1/4"	■	■	■	■	EXT-EF-32G	572.00
	40	2"	1 1/2"	■	■	■	■	EXT-EF-40G	748.00
	50	2 1/2"	2"	■	■	■	■	EXT-EF-50G	1526.00
 <b>Pipe connector</b> For ball valve with internal thread Nickel-plated brass	15		1/2"				■	ZR2315	74.00
	20		3/4"				■	ZR2320	83.00
	25		1"				■	ZR2325	104.00
	32		1 1/4"				■	ZR2332	155.00
	40		1 1/2"				■	ZR2340	213.00
	50		2"				■	ZR2350	353.00
 <b>Pipe connector</b> With internal thread Nickel-plated brass Incl. gasket 2 pieces each are required for sensors and meters	15	3/4"	1/2"	■	■	■	■	ZREV15F	68.00
	20	1"	3/4"	■	■	■	■	ZREV20F	104.00
	25	1 1/4"	1"	■	■	■	■	ZREV25F	172.00
	32	1 1/2"	1 1/4"	■	■	■	■	ZREV32F	244.00
	40	2"	1 1/2"	■	■	■	■	ZREV40F	307.00
	50	2 1/2"	2"	■	■	■	■	ZREV50F	473.00

## Thermowells



	DN	G	For meters		Type	AED/pc.
			22PE-1U..			
 <b>Thermowell</b> For external temperature sensor T1	15...50	1/4"	■		A-22PE-A07 <sup>1)</sup>	110.00
	65...100	1/2"	■		A-22PE-A08	242.00

<sup>1)</sup> Included in scope of delivery of the 22PE-... meters.



## T-pieces

	DN	Rp	For meters		For valves	Type	AED/pc.
			22PE-1U..	22PEM-1U..	EV..R2+MID		
 <b>T-piece with thermowell</b> For external temperature sensor T1	15	1/2"	■			A-22PE-A01	163.00
	20	3/4"	■			A-22PE-A02	194.00
	25	1"	■			A-22PE-A03	235.00
	32	1 1/4"	■			A-22PE-A04	285.00
	40	1 1/2"	■			A-22PE-A05	342.00
	50	2"	■			A-22PE-A06	447.00
 <b>T-piece M10x1</b> For external direct immersion temperature sensor T1	15	1/2"		■	■	A-22PEM-A06	97.00
	20	3/4"		■	■	A-22PEM-A07	121.00
	25	1"		■	■	A-22PEM-A08	170.00
	32	1 1/4"		■	■	A-22PEM-A09	218.00
	40	1 1/2"		■	■	A-22PEM-A10	277.00
	50	2"		■	■	A-22PEM-A11	384.00


## Thermal energy meter accessories

	For meters		For valves	Type	AED/pc.
	22PE-1U..	22PEM-1U..	EV..R2+MID		
 <b>Security seal</b> Consecutively numbered (unique number) With attached wire Set of 2 pcs.		■	■	A-22PEM-A03	110.00
 <b>Silicone grommet with clamp</b> IP54 protection for RJ connection module	■	■	■	A-22PEM-A04	135.00



## Cables

	Cable length	For sensors			Type	AED/pc.
		22PDP-..	22WDP-..	22WP-..		
 <b>Connecting cable for 22WP-.. and 22WDP-..</b> Valve plug Type A, black Cable: PVC black, 4x 0.75 mm <sup>2</sup> , numbered Free ends with wire sleeves	1.5 m		■	■	<b>EXT-MR-249184</b>	246.00
	5 m		■	■	<b>EXT-MR-249185</b>	268.00
 <b>Extension cable set for 22PDP-..</b> With pre-assembled M12 connector plugs	7 m	■			<b>A-22PDP-A02</b>	1376.00

## M-Bus converters

















	For meters		For valves	Type	AED/pc.
	22PE-1U..	22PEM-1U..	EV..R2+MID		
 <b>M-Bus converter</b> Intelligent junction box with AC/DC 24 V Interface MP-Bus to M-Bus For the connection of a thermal energy meter or Belimo Energy Valve™	■	■	■	<b>G-22PEM-A01</b>	1866.00

## Sensor modules as spare parts







	DN	For meters		For valves	Type	AED/pc.
		22PE-1U..	22PEM-1U..	EV..R2+MID		
 <b>Sensor module MID</b> Spare part for thermal energy meter with MID approval Incl. 2 security seals and 1 seal	15		■	■	<b>R-22PEM-0UC</b>	2821.00
	20		■	■	<b>R-22PEM-0UD</b>	2988.00
	25		■	■	<b>R-22PEM-0UE</b>	3147.00
	32		■	■	<b>R-22PEM-0UF</b>	3311.00
	40		■	■	<b>R-22PEM-0UG</b>	3470.00
	50		■	■	■	<b>R-22PEM-0UH</b>
 <b>Sensor module</b> Spare part for thermal energy meter without MID approval	15	■			<b>R-22PE-0UC</b>	2360.00
	20	■			<b>R-22PE-0UD</b>	2524.00
	25	■			<b>R-22PE-0UE</b>	2687.00
	32	■			<b>R-22PE-0UF</b>	2846.00
	40	■			<b>R-22PE-0UG</b>	3010.00
	50	■			<b>R-22PE-0UH</b>	3190.00

S/M

## Service tools



		Download from
	<p><b>Belimo Assistant 2</b> Settings and quick diagnostics for Belimo devices via smartphone, tablet or desktop – even in unpowered state.</p> <p>    </p>	<p>   </p>
		<p>   </p>
		<p>   </p>
	<p><b>Belimo Duct Sensor Assistant App</b> Settings and quick diagnostics for Belimo sensors via Bluetooth dongle (A-22G-A05).</p> <p>  </p>	<p>   </p>
		<p>   </p>

## End-user tools

		Download from
	<p><b>Belimo Display App</b> End-user app for the display of current room values and the adaptation of setpoints per smartphone via NFC.</p> <p>  </p>	<p>   </p>
		<p>   </p>

## Converters

### For sensors and meters

	22PE-...	22PEM-...	22PF-...	22RT-...	P-22RT-...	22ADP-...	22DC-13	22DCK-11	22DCM-11	22DCV-11	22DTC-...	22DTH-15-...	22DTH-16	22DTM-...	22UTH-150X	22UTH-160X	Type	AED/pc.
 <p><b>Belimo Assistant Link</b> Converter for the connection between Belimo Assistant 2 and the configurable and communicative devices from Belimo. Supports Bluetooth and USB to NFC and MP-Bus.</p>	■	■	■	■	■												<b>LINK.10</b>	2107.00
 <p><b>Bluetooth USB dongle</b> Converter for the temporary, wireless operation of Belimo sensors. Works in combination with the Belimo Duct Sensor Assistant App. Available in all EU and EFTA countries and in the UK. With interface board.</p>						■	■	■	■	■	■	■	■	■	■	■	<b>A-22G-A05</b>	1023.00

(The currently valid General Terms and Conditions are available on the Internet.)  
As of July 2023 / V1

### 1. Scope

These General Terms and Conditions are applicable for deliveries and services of BELIMO Automation FZE, Dubai (hereinafter "BELIMO") to the client. If the client requests a delivery or service abroad, the contract will be concluded with the local BELIMO company in that country or with a BELIMO company named by BELIMO in the order confirmation. In such case, the General Terms and Conditions of the BELIMO company appointed in the order confirmation will be applicable. In case our delivery includes Software and accompanying documentation, the terms of the license agreement are applicable in addition to these General Terms and Conditions. However, in case of any conflict between the two documents, the license agreement shall prevail.

### 2. Conclusion of the contract

The contract is deemed to be concluded upon receipt of an order confirmation by the client or, upon absence of such confirmation, upon the segregation of the ordered products by BELIMO. All catalogues, brochures and publications on the Internet are considered to be an invitation to offer and are not binding for BELIMO. Modifications or additions to these General Terms and Conditions or to the contract are not valid without written approval by BELIMO. Orders that deviate from the specifications published by BELIMO or contain additions or modifications made by the client will only be effective if they have been expressly approved by BELIMO with a written order confirmation.

### 3. Cancellation of the contract

Orders of products according to catalogue (standard products) may be cancelled by the client until the segregation of the ordered products by BELIMO provided that BELIMO has received the statement of cancellation prior to the time of segregation.

Orders of customers' products (special designs etc.) may be cancelled only up to 4 hours after receipt of the order by BELIMO. In that case, a service charge of 10% of the net order amount will be invoiced to the client. In case of customised products or configured actuators, a service charge of 20% of the net order amount will be invoiced to the client.

### 4. Prices

If not expressly specified otherwise, all price information is net, excluding VAT. The standard packaging of the ordered products is included in the net price. All other costs, such as for transport, insurance, taxes, customs duties as well as export, import or other necessary approvals will be invoiced as additional charges. The net price does not include any additional services performed by BELIMO, such as installation, commissioning and compilation of diagrams etc. A small order fee in the amount of AED 400 will be charged for orders with a net price of less than AED 5000. BELIMO reserves the right to change prices at any time until the conclusion of the contract.

### 5. Delivery conditions

All times, dates and delivery deadlines are considered non-binding, unless their binding nature has been expressly agreed in writing. Binding delivery deadlines and dates that have been agreed upon in writing are met when the product is made available in the distributing warehouse before the corresponding dates have passed. If BELIMO has a delay in delivery, it is assumed that the client continues to demand the delivery. Compensation for late delivery or for replacement is excluded.

If not otherwise indicated on the order confirmation, the deliveries are free of charge within the UAE ex works Dubai Airport Freezone (Incoterms® 2020).

BELIMO reserves the right not to deliver the ordered products if they are unavailable; in this case, BELIMO will immediately notify the client of the non-availability and, if necessary, reimburse any payment already made.

### 6. Payment conditions

BELIMO invoices must be paid in full on the same date of invoice or according to the agreed credit terms. If the client is in delay, BELIMO reserves the right to withhold further deliveries. The client is not entitled to offset outstanding accounts from BELIMO with any counterclaims.

### 7. Application, installation and use of BELIMO products

BELIMO products are intended for professional use only. BELIMO products may only be installed and replaced by skilled qualified personnel.

BELIMO products must be used in accordance with the specifications of the respective currently valid data and assembly sheet. The use of Belimo Cloud Services is subject to the "Terms of Use for Belimo Cloud Services" as amended from time to time.

### 8. Specifications

Except when otherwise expressly stipulated, the information published by BELIMO in text or picture form (e.g. illustrations or drawings) in catalogues, brochures, websites, data and assembly sheets or other publications conclusively defines the specific characteristics of the goods delivered by BELIMO and their application possibilities and does not represent any guarantee for durability or specific characteristics. The specific characteristics of the delivered products can deviate from that of images or samples in respect to material, colour or shape. BELIMO does not accept any responsibility for the performance or fitness of products for a particular purpose. The specifications communicated by BELIMO are only to be regarded as a guideline. BELIMO reserves the right to change the communicated product specifications or to deliver corresponding products from third-party suppliers in place of the ordered products.

### 9. Reservation of title

The title of supplied products remains with BELIMO until the client has fully paid all invoices.

### 10. Passing of risk

According to Incoterms® 2020 EXW, benefit and risk with regard to the products purchased pass to the client upon placement of products in the possession of the shipper or upon collection by the client.

### 11. Redemption of products

BELIMO may, upon prior agreement, redeem products according to catalogue (standard products) provided that these products are still contained in the product range, virgin, i.e. not older than max. 6 months, unused, and originally packed at the time of return. BELIMO does not have any duty of redemption. Redemption of customers' products (special designs, Designed to Order, configured actuators), Openline-products or products that have been procured on client's specific demand is excluded.

The return of products according to catalogue shall be made enclosing a copy of the invoice and stating the reason for the return, free of all charges to the address of BELIMO Automation FZE, Unit K-17, Dubai Airport Free Zone, Dubai, P.O Box 293644, U.A.E.

From the credit as agreed with the client, a service charge of at least 20% of the net catalogue price will be deducted. A payment of the credit in cash is excluded. It can only be credited against future orders.

### 12. Duty of examination

The client shall examine all products for defects within 5 working days of receipt. Any defects are to be reported to BELIMO immediately in writing; the product will otherwise be deemed to be approved. Hidden defects must be reported in writing within 5 working days after they are discovered.

### 13. Warranty

With its warranty, BELIMO guarantees during the warranty period in accordance with this clause 13, that the delivered products meet the specifications that are explicitly listed on the corresponding data sheets. For the rest, any warranty is excluded as far as permitted by law. In particular, no warranty is given for damage resulting from or partly caused by the client or by third parties acting within the scope of responsibility of the client when Products are used in areas that are not specified in the data and assembly sheets, especially in aircraft and any other airborne means of transport;

Products are used without observing the laws, official regulations or the instructions of BELIMO (especially regarding installation, commissioning, operating regulations and information on the data and assembly sheets);

Products are used under special conditions, especially under the continuous influence of aggressive chemicals, gases or liquids or outside of the permissible operating parameters or conditions for use;

Products are assembled, handled or installed incorrectly or without due care or not according to the respective authoritative state-of-the-art or are not used or installed by skilled qualified personnel;

Products are modified or repaired without prior

written approval of BELIMO;

Products become worn out as a result of inappropriate or unintended use or excessive stress;

Products are stored inappropriately; or

The client or third parties are responsible for damage.

Belimo also provides no warranty for normal wear and tear, including all types of corrosion, operational or environmental wear and tear and the like, as long as this is not due to defects in materials or workmanship.

For Openline-products further limitations of liability according to the applicable framework agreement, concluded between BELIMO and the client, will apply.

The client is liable for actions or omissions of auxiliary personnel as if these were his own actions.

The warranty period is five years from the date of manufacture for BELIMO products. The warranty period is two years from the date of delivery for Openline-Products. The warranty period for products that have not been manufactured by BELIMO (trade products) can be derived from the order confirmation. Trade products are specified as such, either by the name and/or by the logo of the manufacturer. The warranty period for trade products is generally one year from the date of delivery, in exceptional cases two years from the date of delivery.

The warranty period starts at the time of manufacture or delivery of the product, respectively, without requiring acceptance from or testing by the client. The client is obliged to immediately initiate all suitable measures to minimise damage. If a timely report has been made in accordance with Section 12 above, BELIMO is obliged either to replace defective products with products that are equal or equivalent, to have them repaired either by BELIMO or third parties at BELIMO's expense or to issue the client a credit note in the amount of the net price paid for the defective product. BELIMO will decide which of these measures is taken.

The warranty period does not restart from the beginning for replaced products.

BELIMO can require the client to replace particular defective products or parts of products in a system to prevent damage, whereby reasonable client expenditures in this context that are approved in advance in writing by BELIMO will be reimbursed by BELIMO.

#### 14. Limitation of liability

The liability of BELIMO is defined conclusively under Section 13. Any other claims of the client towards BELIMO, irrespective of the legal basis, including but not limited to price reduction or rescission, are excluded and waived expressly herewith.

Client does not have any title to claim for damage which does not occur on the products themselves as well as for compensation for such claims from the client's clients or third parties. In particular, BELIMO does not accept any liability for costs incurred in connection with a replacement (e.g. transport, dismantling, assembly, re-commissioning and associated

clarifications), costs for determining the causes of damage, for expert opinions or indirect or consequential damage (including damage resulting from defects) of any kind, such as loss of use, downtimes, loss of profit or returns etc. and for damages caused by recall actions, unless they have been caused by BELIMO intentionally or due to gross negligence.

The extent to which BELIMO's liability is excluded or limited, such exclusion or limitation also applies to the personal liability of their employees, staff, representatives and vicarious agents.

#### 15. Indemnification

Upon BELIMO's first request, the client shall indemnify and hold harmless BELIMO in full from any third party claim in conjunction with the events listed under Section 13. This also applies to claims in connection with product liability.

#### 16. Force majeure

Neither BELIMO nor the client accepts liability for damage of any kind if obstacles occur which they are unable to prevent in spite of all due care, irrespective of whether these occur at BELIMO, the client or a third party. Such obstacles are, for example, epidemics, pandemics, mobilisation, war, revolts, severe interruptions of operations, accidents, labour disputes, delayed or faulty delivery of the required raw materials, semi-finished or finished goods, non-availability of important work pieces, magisterial injunctions or omissions, embargos, export or import restrictions, acts of God or any other circumstances which are, to a large extent, beyond the control of BELIMO or the client. Payments, however, may not be retained or delayed with reference to such circumstances. In such cases, both parties shall, without delay, undertake all effective measures which can be expected of them to prevent damage, or if damage occurs, to minimise the degree of this damage as far as possible.

#### 17. Resale

If the product is resold, the client must impose at least the same limitations of warranty restrictions upon the buyer.

#### 18. Privacy policy

BELIMO places great value on the implementation of lawful data processing to protect your personal data. BELIMO is obliged to process your personal data in accordance with current legislation. We are dependent on the services of third parties for the provision of our services. These third parties will only process your data in connection with the services agreed with BELIMO, will ensure the same level of data protection as BELIMO, and will not pass on your data to other third parties without your agreement. When processing your data and transferring your data to third parties, BELIMO will ensure that an appropriate level of data protection is guaranteed and that appropriate organisational and technical measures are implemented to protect your data. More detailed information on our data protection guidelines is available from the following Internet address: [www.belimo.com/privacy](http://www.belimo.com/privacy).

#### 19. Modifications

BELIMO reserves the right to modify these General Terms and Conditions at any time.

#### 20. Severability clause

In the event that one or more of the aforementioned provisions should be or become invalid, the validity of the remaining provisions shall not be affected thereby.

#### 21. Applicable law and jurisdiction

UAE law shall apply exclusively, excluding application of the UN Convention on the International Sale of Goods of 11 April 1980 (CISG).

The ordinary courts at BELIMO's domicile shall have exclusive jurisdiction.





# All inclusive.

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

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



**BELIMO Automation FZE**

P.O Box 293644, Dubai, United Arab Emirates

+971 4 299 80 50, [info@belimo.ae](mailto:info@belimo.ae), [www.belimo.ae](http://www.belimo.ae)

**BELIMO**<sup>®</sup>