The best connection.

Bus solutions from Belimo

BELIMO

Integrating, communicating and controlling

The networking of building technology systems enhances comfort, safety and transparency in air-conditioned buildings. Thanks to this transparency, operation can be optimised and overall energy consumption reduced – just as readily in new systems as in retrofitting or renovation projects. This networking of the individual components can be easily undertaken with bus systems, extending throughout the entire building.

Bus systems can be used to exchange any volume of data from various bus participants over the same physical lines. The user has unrestricted access to control, feedback and parameters on the individual devices. Cabling expenditures are reduced by up to 90% compared with actuators with conventional wiring. The installation work is simpler and, thanks to time and material savings (cables, terminals, connectors, etc.), cheaper too. Further positive selling points for bus solutions include their lower fire load and the fact that they take up less space in cable trays and switch cabinets. Depending on the application and requirements, different bus systems are used.

The best connection

MP actuators and sensors from Belimo

Directed to all higher-level systems
The MP-Bus from Belimo was specially developed as a single-client/multi-server bus system for HVAC actuators and sensors. It allows up to eight different final controlling elements to be grouped together and connected to any higher-level system. DDC controllers with an integrated MP interface serve as the MP client.

Easy wiring
The MP-Bus combines supply and communication in just three wires and uses just one simple installation cable. It is very resistant to external interferences and does not need bus terminations.

The right actuators for every application
Multifunctional MP and communicative MPL actuators from Belimo are suitable for the integration of the final controlling elements in the MP-Bus. These are available as rotary, full-rotation and linear actuators for a very wide variety of damper types and volumetric flow units. Also available is the wide array of MP-Bus-capable motorised valves – ranging from characterised control valves through butterfly valves and globe valves all the way to the intelligent Belimo Energy Valve™ with built-in web server for energy monitoring.

Modbus actuators and sensors from Belimo

Used all over the world
Modbus is a communication protocol, which has become a de-facto standard, is used commonly all around the globe and in a huge range of applications. Its simple implementation makes Modbus very popular with many manufacturers.

Direct connection to Modbus RTU & TCP
The RS-485 interface installed in the Modbus devices enables the direct connection of the HVAC final controlling elements to Modbus RTU. Up to 32 actuators can be connected to a Modbus line. Modbus TCP is very similar to RTU, but TCP/IP packets are used to transmit the data. Communication takes place on the IP network.

Ready-to-connect for equipment manufacturing
The Modbus actuator can be provided with an RJ12 socket for the cabling of devices with a compact structure (e.g. air handling units). This actuator version permits rapid, error-free wiring.

Utilise the advantages

BACnet actuators and sensors from Belimo

Interoperability with BACnet
BACnet is a proven, commonly used communication protocol for building automation. The standard is open, requires no licence and is used by a large number of international providers, universities and associations. Implementing the BACnet Standard Device Profiles B-ASC and B-SS as well as the associated BACnet Interoperability Building Blocks guarantees genuine compatibility between various BACnet devices.

BACnet IP and MS/TP
BACnet distinguishes between MS/TP and IP. BACnet MS/TP can be realised with a serial interface in the actuator. An Ethernet interface is used to connect to BACnet IP. The Belimo Energy Valve™, for example, can be integrated directly in the BACnet IP network.

KNX actuators from Belimo

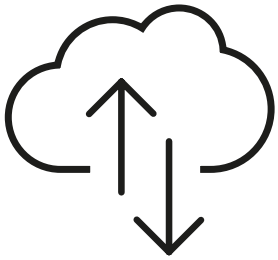
KNX-certified actuators
KNX is a well-engineered building automation system used around the world to control systems spanning several building trade groups, such as heaters, blinds and security technology in buildings. The KNX-certified actuators enable a direct connection to the KNX network with a maximum of 64 nodes per line. Communication takes place via the integrated KNX interface (TP, S-Mode).

Product database for ETS
KNX systems are always commissioned using the project planning and commissioning tool ETS. The actuators from Belimo, including the sensor, can be easily configured in the ETS using the available product database, allowing integration errors to be minimised.

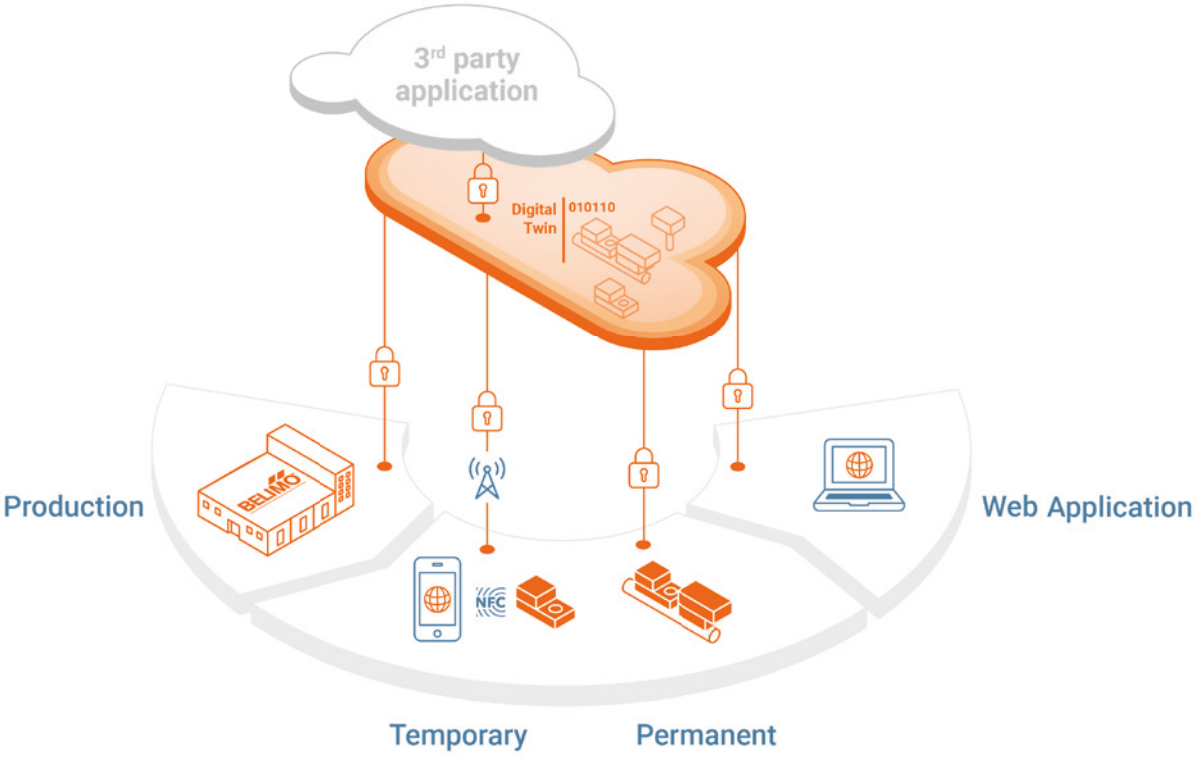
Ready for the future

The IoT ecosystem from Belimo

Easy access to device data
As an integral part of our IoT products, the devices can be connected to the Belimo Cloud and thereby benefit from the possibilities of Belimo's IoT ecosystem. Device data can be read from anywhere via an easily accessible, secure interface – the Belimo Cloud Client API. If required, it can also be controlled via the cloud. This enables third-party providers to easily access data authorised by the customer and offer web services such as energy billing, energy optimisation, building analyses and remote maintenance.



Actuators with an IoT ecosystem
IoT actuators are connected to the Belimo Cloud ecosystem and can therefore be controlled and read via the internet. They also offer two inputs for sensors to transmit actual measured values for temperature, pressure, humidity and air quality to the ecosystem. This eliminates additional I/O connections and enables easy integration of sensor values into the ecosystem.



Simple and low-cost

Override control and sensor integration included

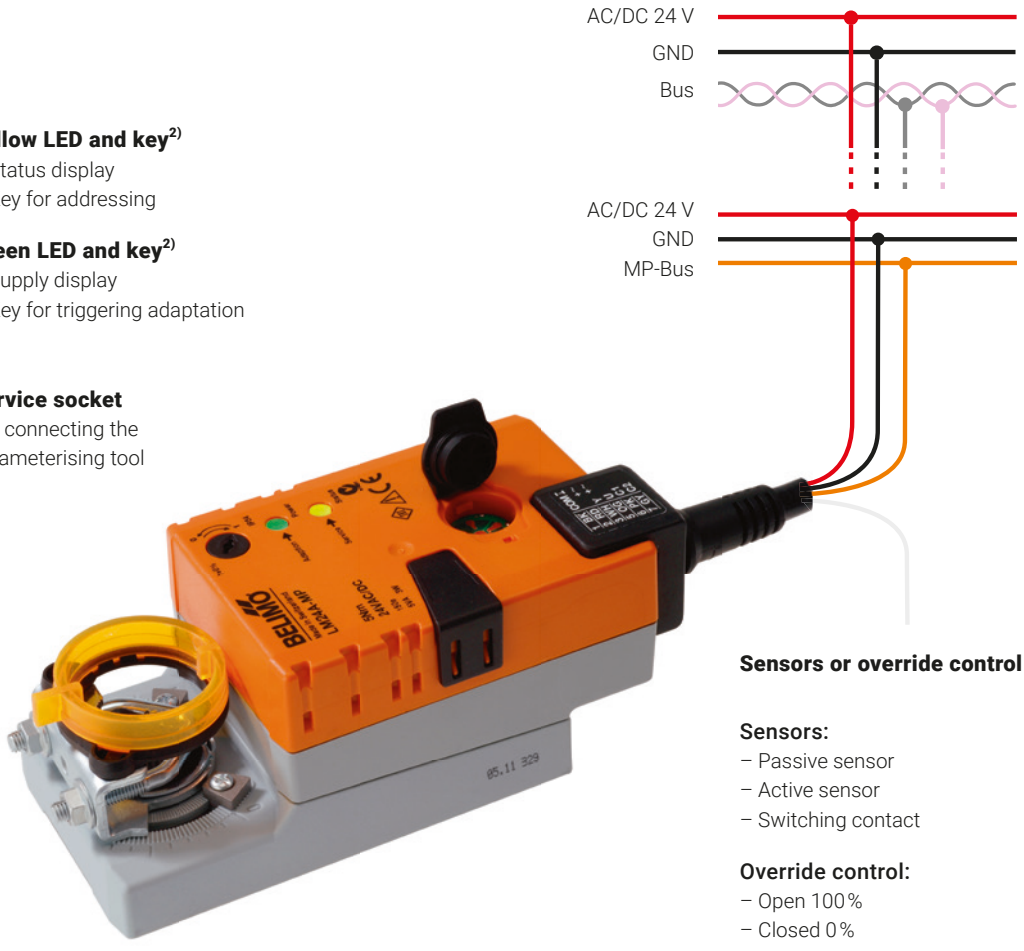
Conventional sensors can be connected directly to actuators or override control can be realised locally. This allows the costs for planning, installation, operation and maintenance to be minimised.

- A sensor[1] can be connected to many actuators capable of communication. This may be a passive resistance sensor (Pt1000, Ni1000, NTC etc.), an active sensor (e.g. with a DC 0...10 V output) or a switching contact. Its signals are digitised in the Belimo actuator and transferred to the higher-level bus system.
- Using local override control, the actuator can be fully closed or opened and a preset maximum value also approached.

Yellow LED and key[2]
– Status display
– Key for addressing

Green LED and key[2]
– Supply display
– Key for triggering adaptation

Service socket
For connecting the parameterising tool



Sensors or override control

Sensors:
– Passive sensor
– Active sensor
– Switching contact

Override control:
– Open 100 %
– Closed 0 %
– Max

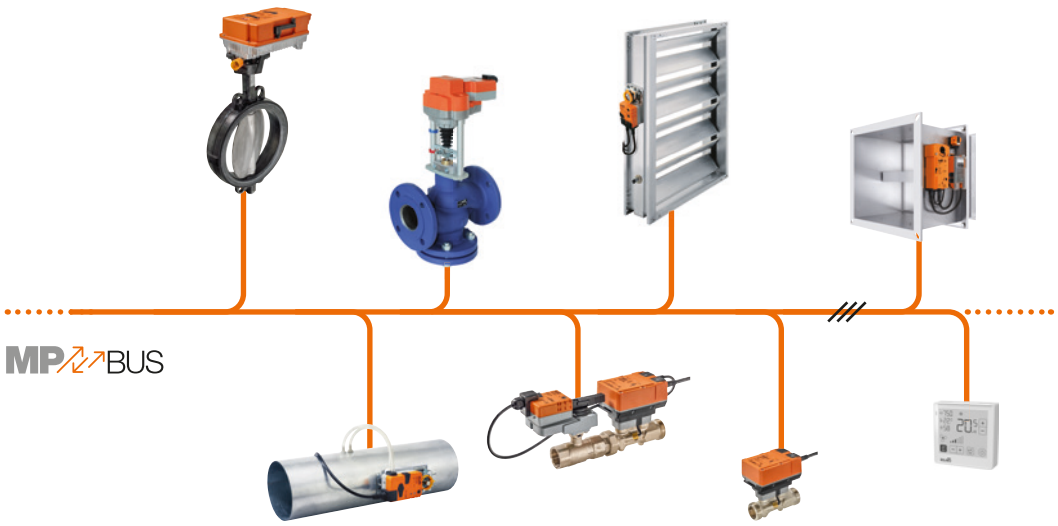
[1] For sensor compatibility per actuator, see overview list.
[2] The function of the key differs depending on the type of actuator.

Structured system integration

MP connections via solutions from third-party suppliers

Our MP partner solutions are used to convert the signals of the actuators which are grouped together in the MP-Bus and those of the sensors for the relevant networks. This enables a structured integration of clearly arranged and manageable sub-systems.

Belimo provides the MP specification to interested manufacturers of DDC controllers. They can use these specifications to implement a corresponding hardware / software MP interface in their devices.



Tested MP partner solutions

The close cooperation between the manufacturers of the DDC controllers and Belimo results in solutions of the highest possible quality. The integration solutions for the MP-Bus resulting from the joint development efforts are subjected to a conformity test and awarded the MP-BUS COMPATIBLE label when they pass it successfully.

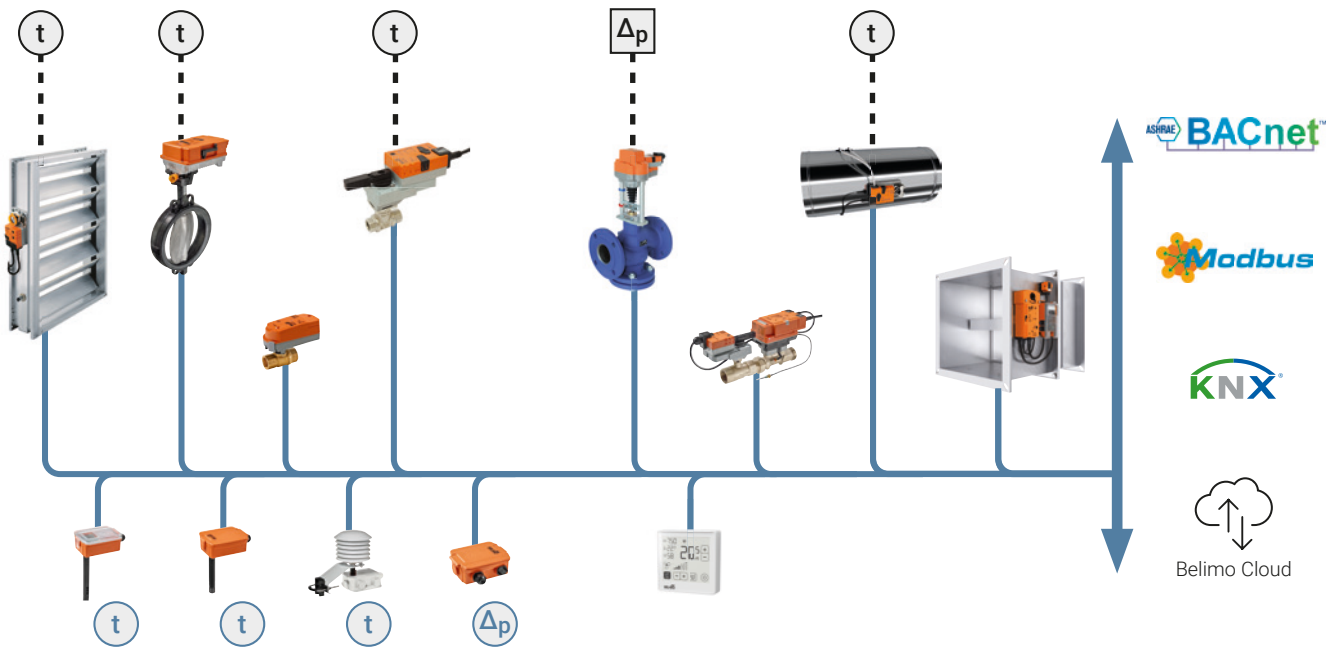
A current overview of recognised MP partners of Belimo can be found on your local Belimo website.

MP BUS
MP-BUS COMPATIBLE

Direct connection for dampers, valves and sensors

Easy integration into fieldbus systems

In cases where the customer wishes to connect a device directly to a higher level network, Belimo provides various actuators with an integrated interface. This enables a direct connection to field buses commonly used for HVAC without additional hardware, which eliminates additional sources of error. The system integrators can integrate the bus devices easily and using a software environment with which they are familiar.



Comprehensive product range

Our range includes actuators and sensors for Modbus, BACnet, KNX and IoT. This range is continuously being expanded. You will find a complete product overview on your local Belimo website.

Practical tools from Belimo

Simple configuration, setup and monitoring

As a rule, MP, Modbus, BACnet, KNX and IoT actuators and sensors are shipped from the factory with typical basic settings. Parameters such as running time, angle of rotation, stroke limitations, etc. can also be individually adjusted and customised precisely to the requirements of the respective system.

Belimo Assistant 2 available as aid for this purpose. Depending on the place of utilisation and the task, it facilitates on-site configuration, setup, diagnostics and evaluation. With Belimo Assistant 2, configuration is possible via smartphone, tablet or Windows Version for PC or laptop (from Windows version 10) is possible.

Belimo Assistant 2

- Belimo devices marked with the NFC logo can be configured using Belimo Assistant 2
- Can be installed on a smartphone/tablet, PC/laptop (Windows)
- Intuitive graphical operation
- The actuator or sensor can be configured while de-energised

GET IT ON Google Play

Download on the App Store

Free Download Windows Version

Practical tools from Belimo

Belimo Assistant Link

- Converter for the connection of Belimo Assistant 2 and configurable and communicative devices from Belimo
- Supports Bluetooth and USB to NFC and MP-Bus
- Configuration of powered and unpowered devices

ZTH EU Service Tool

- The handy ZTH EU Service Tool is connected directly to the actuator for configuration
- Reliable and proven connection via the tool socket
- Supply via actuator – always ready
- MP-Bus tester integrated (packet counter, signal level)
- ZIP level converter to USB for connecting the actuator with Belimo Assistant 2

You can find further information about the possible connections of the ZTH EU Service Tool on your local Belimo website.

Parameterise with which tool?

Which tool is suitable for which actuator can be simplified as follows:

- All actuators with the endings “-MOD” and “-MP”: ZTH EU
- All actuators with the ending “-BAC”: Belimo Assistant 2
- Belimo Energy Valve™: Webserver, Belimo Assistant 2
- Thermal Energy Meter (22PE-1..): Webserver, Belimo Assistant 2
- Flow Sensor (22PF-1..): Belimo Assistant 2
- Room unit, room operating unit (P-22RT.-1..): Belimo Assistant 2
- BKN230-24-MOD: DIP switch

Actuator solutions for MP-Bus

General air solutions

Types[1)]	Rating	Passive sensor	Active sensor	Switching contact	Configurable
Rotary actuators					
CM24-MPL-L	2 Nm	–	–	–	–
CM24-MPL-R	2 Nm	–	–	–	–
LM24A-MP	5 Nm	■	■	■	■
NM24A-MP	10 Nm	■	■	■	■
SM24A-MP	20 Nm	■	■	■	■
GM24A-MP	40 Nm	■	■	■	■
GM24SR	40 Nm	–	■	■	■
Rotary actuators with fail-safe					
TF24-MFT	2 Nm	–	■	■	■
LF24-MFT2	4 Nm	■	■	■	■
NF24A-MP	10 Nm	■	■	■	■
SF24A-MP	20 Nm	■	■	■	■
EF24A-MP	30 Nm	■	■	■	■
GK24A-MP	40 Nm	■	■	■	■
Linear actuators					
LH24A-MP... 60/100/200/300	150 N	■	■	■	■
SH24A-MP... 100/200/300	450 N	■	■	■	■
Fast running rotary actuators					
NMC24A-MP	10 Nm	■	■	■	■
SMC24A-MP	20 Nm	■	■	■	■
Rotary actuators for special applications					
NM24P-MP	10 Nm	■	■	■	■
SM24P-MP	20 Nm	■	■	■	■
GM24G-MP-T	40 Nm	■	■	■	■
Rotary actuators for special applications with fail-safe					
NF24G-MP-L	10 Nm	■	■	■	■
SF24G-MP-L	20 Nm	■	■	■	■
GK24G-MP	40 Nm	■	■	■	■

[1)] The currently available product range can be found on your local Belimo website.

Actuator solutions for MP-Bus

Water solutions

Types[1]	Rating	Passive sensor	Active sensor	Switching contact	Configurable
Actuators for control valves/open-close ball valves					
CQ24A-MPL	1 Nm	–	–	–	–
LR24A-MP	5 Nm	■	■	■	■
NR24A-MP	10 Nm	■	■	■	■
SR24A-MP	20 Nm	■	■	■	■
Actuators for control valves/open-close ball valves with fail-safe					
CQK24A-MPL	1 Nm	■	–	■	■
TRF24-MFT	2 Nm	■	–	■	■
LRF24-MP	4 Nm	■	■	■	■
NRF24A-MP	10 Nm	■	■	■	■
Actuators for globe valves					
LV24A-MP-TPC	500 N	■	■	■	■
NV24A-MP-TPC	1000 N	■	■	■	■
SV24A-MP-TPC	1500 N	■	■	■	■
EV24A-MP-TPC	2500 N	■	■	■	■
Actuators for globe valves with fail-safe					
NVK24A-MP-TPC	1000 N	■	■	■	■
AVK24A-MP-TPC	2000 N	■	■	■	■
Fast running actuators for globe valves					
LVC24A-MP-TPC	500 N	■	■	■	■
NVC24A-MP-TPC	1000 N	■	■	■	■
SVC24A-MP-TPC	1500 N	■	■	■	■
Fast running actuators for globe valves with fail-safe					
NVKC24A-MP-TPC	1000 N	■	■	■	■
Actuators for butterfly valves					
SR24A-MP-5	20 Nm	■	■	■	■
GR24A-MP-5/7	40 Nm	■	■	■	■
JRCA-BAC-S2-T	90 Nm	■	■	■	■
PRCA-BAC-S2-T-200	160 Nm	■	■	■	■
PRCA-BAC-S2-T-250	160 Nm	■	■	■	■
PRCA-BAC-S2-T	160 Nm	■	■	■	■
PRKCA-BAC-S2-T-200	160 Nm	■	■	■	■
PRKCA-BAC-S2-T-250	160 Nm	■	■	■	■
PRKCA-BAC-S2-T	160 Nm	■	■	■	■
SY4-24-MP-T	400 Nm	■	■	■	■

[1] The currently available product range can be found on your local Belimo website.

Actuator solutions for MP-Bus

Safety solutions

Types[1]	Rating	Passive sensor	Active sensor	Switching contact	Configurable
Standard actuator for fire dampers					
BKN230-24-C-MP for connecting BF..24-..ST	4/9/11/18 Nm	–	–	–	■

Room and system solutions

VAV-Compact rotary actuators					
LMV-D3-MP	5 Nm	■	■	■	■
NMV-D3-MP	10 Nm	■	■	■	■
SMV-D3-MP	20 Nm	■	■	■	■
VAV-Compact linear actuator					
LHV-D3-MP	150 N	■	■	■	■
VAV-Universal					
VRU-D3-BAC	–	■	■	■	■
VRU-M1-BAC	–	■	■	■	■
VRU-M1R-BAC	–	■	■	■	■
VAV control system for controlled living area ventilation systems					
CMV-100-MP	DN 100	–	■	■	■
CMV-125-MP	DN 125	–	■	■	■
CMV-150-MP	DN 150	–	■	■	■
CMV-160-MP	DN 160	–	■	■	■

HVAC performance devices

EPIV					
EP..R6+BAC	DN 15...25	–	■	■	■
EP..R6+BAC-HH	DN 15...25	–	■	■	■
EP..R2+(K)BAC	DN 15...50	–	■	■	■
EP..F+(K)MP	DN 65...150	–	■	■	■
Belimo Energy Valve™					
EV..R2+(K)BAC[2]	DN 15...50	■	■	■	■
EV..R2+MID[2]	DN 15...50	■	■	■	■
EV..F+(K)BAC	DN 65...150	–	–	–	■

[1] The currently available product range can be found on your local Belimo website.
[2] Possibility to use M-Bus (with converter) instead of MP-Bus.

Sensor solutions for MP-Bus

Room units

Types[1]	Temperature	Humidity	CO_2	Digital input
Room units temperature/humidity/air quality				
22RT-19-1	■	–	–	–
22RTH-19-1	■	■	–	–
22RTM-19-1	■	■	■	–
P-22RTH-1900A-1	■	■	–	–
P-22RTM-1900A-1	■	■	■	–
P-22RT-1900D-1	■	–	–	–
P-22RTH-1900D-1	■	■	–	–
P-22RTM-1900D-1	■	■	■	–
P-22RTH-1U00D-2	■	■	–	■
P-22RTM-1U00D-2	■	■	■	■
P-22RTH-1U00A-2	■	■	–	■
P-22RTM-1U00A-2	■	■	■	■

Flow sensors

Types[1]	Passive sensor	Active sensor	Switching contact	Configurable
Flow sensors, DN 15...50				
22PF-1U..	–	■	■	■

[1] The currently available product range can be found on your local Belimo website.
[2] Possibility to use M-Bus (with converter) instead of MP-Bus.

Sensor solutions for MP-Bus

Thermal Energy Meters (TEM)

Types[1]	Thermal energy	Flow rate	Temperature	Passive sensor	Active sensor	Switching contact	Configurable
Belimo Thermal Energy Meter™							
22PEM-1U..[2] according to EN 1434 with MID approval	■	■	■	■	■	■	■
22PE-1U..[2] with glycol compensation	■	■	■	■	■	■	■

[1] The currently available product range can be found on your local Belimo website.
[2] Possibility to use M-Bus (with converter) instead of MP-Bus.

Actuator solutions Modbus / BACnet combined

General air solutions

Types[1]	Rating	Passive sensor	Active sensor	Switching contact	Configurable	Hybrid
Rotary actuators						
LM24A-MOD	5 Nm	■	■	■	■	■
NM24A-MOD	10 Nm	■	■	■	■	■
SM24A-MOD	20 Nm	■	■	■	■	■
GM24A-MOD	40 Nm	■	■	■	■	■
PMCA-BAC-S2-T	160 Nm	■	■	■	■	■
Rotary actuators with fail-safe						
NF24A-MOD	10 Nm	■	■	■	■	■
SF24A-MOD	20 Nm	■	■	■	■	■
GK24A-MOD	40 Nm	■	■	■	■	■
PKCA-BAC-S2-T	160 Nm	■	■	■	■	■
Linear actuator						
LH24A-MOD200	150 N	■	■	■	■	■
Fast running rotary actuator						
SMC24A-MOD	20 Nm	■	■	■	■	■

Water solutions

Actuators for control valves / open-close ball valves						
CQ24A-BAC	1 Nm	–	–	–	■	■
LR24A-MOD	5 Nm	■	■	■	■	■
NR24A-MOD	10 Nm	■	■	■	■	■
SR24A-MOD	20 Nm	■	■	■	■	■
GR24A-MOD-5	40 Nm	■	■	■	■	■
Actuators for control valves / open-close ball valves with fail-safe						
SRF24A-MOD	20 Nm	■	■	■	■	■
Fast running actuator for control valves / open-close ball valves						
SRC24A-MOD	20 Nm	■	■	■	■	■
Actuators for globe valves						
LV24A-MOD	500 N	■	■	■	■	■
NV24A-MOD	1000 N	■	■	■	■	■
NVK24A-MOD	1000 N	■	■	■	■	■
SV24A-MOD	1500 N	■	■	■	■	■
AVK24A-MOD	2000 N	■	■	■	■	■
EV24A-MOD	2500 N	■	■	■	■	■

[1] The currently available product range can be found on your local Belimo website.

Actuator solutions Modbus / BACnet combined

Water solutions

Types[1]	Rating	Passive sensor	Active sensor	Switching contact	Configurable	Hybrid
Actuators for butterfly valves						
JRCA-BAC-S2-T	90 Nm	■	■	■	■	■
PRCA-BAC-S2-T-200	160 Nm	■	■	■	■	■
PRCA-BAC-S2-T-250	160 Nm	■	■	■	■	■
PRCA-BAC-S2-T	160 Nm	■	■	■	■	■
PRKCA-BAC-S2-T-200	160 Nm	■	■	■	■	■
PRKCA-BAC-S2-T-250	160 Nm	■	■	■	■	■
PRKCA-BAC-S2-T (with fail-safe)	160 Nm	■	■	■	■	■

Safety solutions

Standard actuator for fire dampers						
BKN230-24-MOD for connecting BF..(T)24(-T)-ST	4/9/11/18 Nm	–	–	–	■	–

Room and system solutions

VAV-Compact rotary actuators						
LMV-D3-MOD	5 Nm	–	■	■	■	■
NMV-D3-MOD	10 Nm	–	■	■	■	■
SMV-D3-MOD	10 Nm	–	■	■	■	■
VAV-Compact linear actuator						
LHV-D3-MOD	150 N	–	■	■	■	■
VAV-Universal						
VRU-D3-BAC	–	■	■	■	■	■
VRU-M1-BAC	–	■	■	■	■	■
VRU-M1R-BAC	–	■	■	■	■	■

[1] The currently available product range can be found on your local Belimo website.

Actuator solutions Modbus / BACnet combined

HVAC performance devices

Types[1)]	Rating	Passive sensor	Active sensor	Switching contact	Configurable	Hybrid
EPIV						
EP..R6+BAC	DN 15...25	–	■	■	■	■
EP..R6+BAC-HH	DN 15...25	–	■	■	■	■
EP..R2+(K)BAC	DN 15...50	–	■	■	■	■
EP..F+(K)MP	DN 65...150	–	■	■	■	■
Belimo Energy Valve™						
EV..R2+(K)BAC	DN 15...50	■	■	■	■	■
EV..R2+MID	DN 15...50	■	■	■	■	■
EV..F+(K)BAC	DN 65...150	–	–	–	■	■

[1)] The currently available product range can be found on your local Belimo website.

Sensor solutions Modbus / BACnet combined

Room units

Types[1]	Temperature	Humidity	CO_2	Digital input
Room units temperature/humidity/air quality				
P-22RTH-1U00D-2	■	■	–	■
P-22RTM-1U00D-2	■	■	■	■
P-22RTH-1U00A-2	■	■	–	■
P-22RTM-1U00A-2	■	■	■	■

Flow sensors

Types[1]	Passive sensor	Active sensor	Switching contact	Configurable
Flow sensors, DN 15...50				
22PF-1U..	–	■	■	■

Thermal Energy Meters (TEM)

Types[1]	Thermal energy	Flow rate	Temperature	Passive sensor	Active sensor	Switching contact	Configurable
Belimo Thermal Energy Meter™							
22PEM-1U..[2] according to EN 1434 with MID approval	■	■	■	■	■	■	■
22PE-1U..[2] with glycol compensation	■	■	■	■	■	■	■

[1] The currently available product range can be found on your local Belimo website.
[2] Possibility to use M-Bus (with converter) instead of MP-Bus.

Sensor solutions for Modbus

Duct/air

Types[1]	Measuring range[2]	Multirange	Temperature	Humidity	CO_2	Differential pressure	Display (LCD)	Auto-Zero
Duct sensors pressure								
22ADP-15Q	0...250 Pa	■	–	–	–	■	–	–
22ADP-15QL	0...250 Pa	■	–	–	–	■	■	–
22ADP-15QA	0...250 Pa	■	–	–	–	■	–	■
22ADP-15QB	0...250 Pa	■	–	–	–	■	■	■
22ADP-154	0...2500 Pa	■	–	–	–	■	–	–
22ADP-154D	0...2500 Pa	■	–	–	–	■	–	–
22ADP-154F	0...2500 Pa	■	–	–	–	■	■	–
22ADP-154H	0...2500 Pa	■	–	–	–	■	–	–
22ADP-154K	0...2500 Pa	■	–	–	–	■	■	–
22ADP-154L	0...2500 Pa	■	–	–	–	■	■	–
22ADP-156	0...7000 Pa	■	–	–	–	■	–	–
22ADP-156L	0...7000 Pa	■	–	–	–	■	■	–
Duct sensors temperature/humidity/air quality								
22DTH-15M	–	–	■	■	–	–	–	–
22DTH-15Q	–	–	■	■	–	–	–	–
22DTM-15	–	–	■	■	■	–	–	–

Outdoor/air

Outdoor sensor humidty/temperature								
22UTH-150X	–	–	■	■	–	–	–	■

[1] The currently available product range can be found on your local Belimo website.
[2] Factory setting – ranges are configurable on the sensor.

Sensor solutions for BACnet

Duct/air

Types[1]	Measuring range[2]	Multirange	Temperature	Humidity	CO_2	Differential pressure	Display (LCD)	Auto-Zero
Duct sensors temperature/humidity/air quality/pressure								
22ADP-164	-100...2500 Pa	■	–	–	–	■	–	–
22ADP-164L	-100...2500 Pa	■	–	–	–	■	–	–
22DTH-16M	–	–	■	■	–	–	–	–
22DTM-16	–	–	■	■	■	–	–	–

Outdoor/air

Outdoor sensor humidty/temperature								
22UTH-160X	–	–	■	■	–	–	–	–

[1] The currently available product range can be found on your local Belimo website.
[2] Factory setting – ranges are configurable on the sensor.

Actuator solutions for KNX

General air solutions

Types[1]	Rating	Passive sensor	Active sensor	Switching contact	Dew point monitor	Configurable
Rotary actuators						
LM24A-KNX	5 Nm	■	■	■	–	■
NM24A-KNX	10 Nm	■	■	■	–	■

Water solutions

Actuators for control valves/open-close ball valves						
LR24A-KNX	5 Nm	■	■	■	■	■
NR24A-KNX	10 Nm	■	■	■	■	■

Room and system solutions

VAV-Compact rotary actuators						
LMV-D3-KNX	5 Nm	–	■	■	–	■
NMV-D3-KNX	10 Nm	–	■	■	–	■
VAV-Compact linear actuator						
LHV-D3-KNX	150 N	–	■	■	–	■

[1] The currently available product range can be found on your local Belimo website.

Actuator solutions for IoT

General air solutions

Types[1]	Rating	Belimo Cloud	Modbus TCP	BACnet IP	Hybrid
Rotary actuators					
VLM24A-LP1	5 Nm	■	■	■	■
VNM24A-LP1	10 Nm	■	■	■	■
VSM24A-LP1	20 Nm	■	■	■	■
VGM24A-LP1	40 Nm	■	■	■	■
Rotary actuator with fail-safe					
VSF24A-LP1	20 Nm	■	■	■	■

Water solutions

Actuators for control valves/open-close ball valves					
VLR24A-LP1	5 Nm	■	■	■	■
VNR24A-LP1	10 Nm	■	■	■	■
VSR24A-LP1	20 Nm	■	■	■	■
Actuators for control valves/open-close ball valves with fail-safe					
VSRF24A-LP1	20 Nm	■	■	■	■
VSRK24A-LP1	20 Nm	■	■	■	■
Actuators for globe valves					
VNV24A-LP1	1000 N	■	■	■	■
Actuator for butterfly valves					
VGR24A-LP1-5	40 Nm	■	■	■	■
Actuator for butterfly valves with fail-safe					
VGRK24A-LP1-5	40 Nm	■	■	■	■

HVAC performance devices

EPIV					
EP..R6+BAC / EP..R6+BAC-HH	DN 15...25	–	–	–	■
EP..R2+(K)BAC	DN 15...50	–	–	–	■
EP..F+(K)MP	DN 65...150	–	–	–	■
Belimo Energy Valve™					
EV..R2+(K)BAC	DN 15...50	■	■	■	■
EV..R2+MID	DN 15...50	■	■	■	■
EV..F+(K)BAC	DN 65...150	■	■	■	■

[1] The currently available product range can be found on your local Belimo website.

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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