

Modbus solutions from Belimo. Open and flexible.



Integrating, communicating, controlling.

The networking of building technology systems is a good way to increase convenience, safety and security while cutting energy consumption and optimising operations – in new plants as well as with retrofitting or renovation. Modbus solutions from Belimo permit cost-efficient and easy-to-manage integration of HVAC air/water final controlling elements and of sensors.

Actuators for Modbus

The interface installed in the Modbus actuators enables the direct connection of HVAC final controlling elements to Modbus RTU. In addition to such communications parameters as address, baud rate and transmission format, other actuator parameters such as running time or scaling can also be set with the Service tool ZTH-GEN. One sensor can also be connected to each Modbus actuator. This can be a passive or active sensor or a switching contact. This makes conventional sensors communications-capable in a very simple fashion.

Gateway MP to Modbus

The signals of up to eight MP actuators and the signals of the sensors that are grouped together via the Belimo MP-Bus® are converted to Modbus RTU by the Gateway UK24MOD. The Modbus parameterization (address, baud rate,...) takes place with DIP switches. The MP-Bus® assignment is determined automatically. The gateway solution combines the advantages of the inexpensive MP-Bus® wiring with the open integration per Modbus and leads to a structured network topology. In addition, the MP actuator product range offers the most comprehensive array of communicative motorisation solutions.

Modbus solutions from Belimo.

Direct or structured.

Actuators for Modbus

Damper actuators¹⁾

LM24A-MOD (5 Nm)
NM24A-MOD (10 Nm)
SM24A-MOD (20 Nm)
SF24A-MOD (20 Nm)



VAV-Compact controllers¹⁾

LMV-D3-MOD (5 Nm)
NMV-D3-MOD (10 Nm)



Actuators for characterised control valves¹⁾

LR24A-MOD (5 Nm)
NR24A-MOD (10 Nm)
SR24A-MOD (20 Nm)



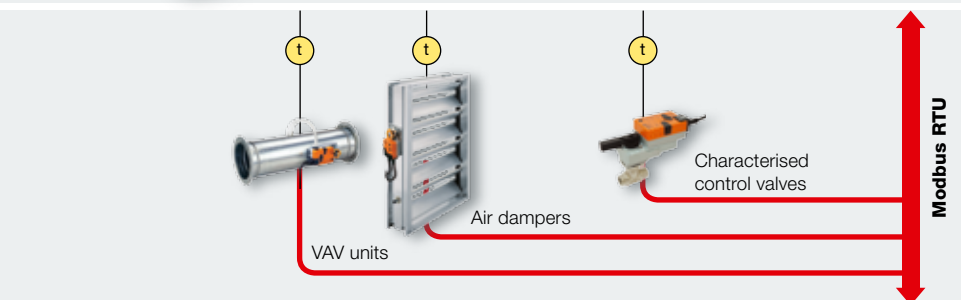
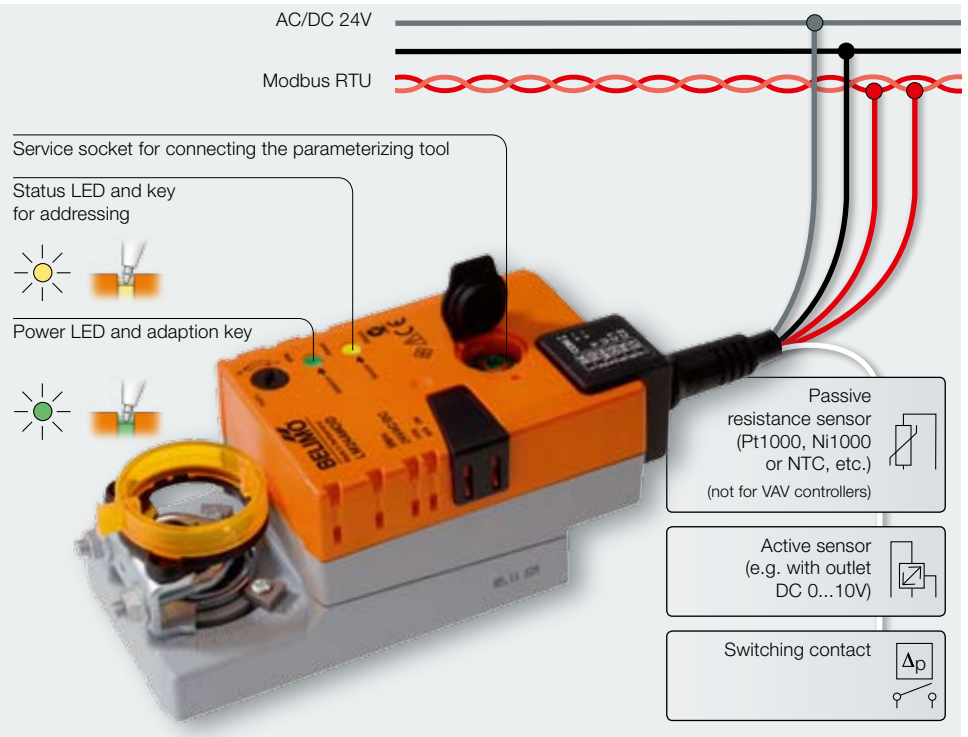
- Nominal voltage AC/DC 24V
- Communication via Modbus RTU (RS-485)
- Baud rate up to 115,200 Bd
- Termination can be switched
- Conversion of sensor signals
- Parameterization with Service tool ZTH-GEN
- Cable connection

Specially for utilisation with air-handling units:

- RJ12 socket for error-free wiring (e.g. LM24A-MOD-J6)



¹⁾ Additional types on request

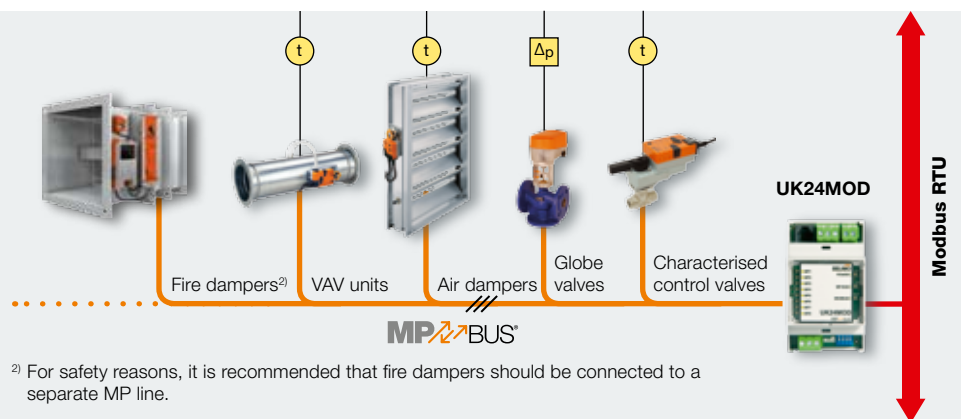


Gateway MP to Modbus

UK24MOD

- Gateway from MP to Modbus RTU
- Linkage of up to 8 MP/MFT(2) actuators and sensors to Modbus RTU

- Simplest cabling of the actuators thanks to MP bus
- Comprehensive selection of MP-capable actuators for all applications



²⁾ For safety reasons, it is recommended that fire dampers should be connected to a separate MP line.

Belimo worldwide: www.belimo.com



5-year warranty



On site around the globe



Complete product range



Tested quality



Short delivery times



Comprehensive support

Head office: **BELIMO Automation AG**, Brunnenbachstrasse 1, CH-8340 Hinwil
Phone +41 (0)43 843 61 11, Fax +41 (0)43 842 62 68, info@belimo.com

