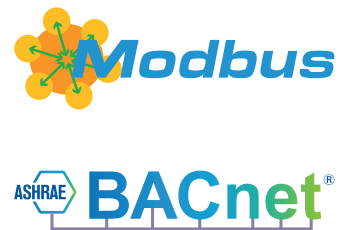




# System Integration Version Overview



## Modbus / BACnet Actuators

Edition 2023-12/A



# System Integration Version Overview – Modbus / BACnet Actuators

## General information

**Actuator types:** ..M(C)24A-MOD ,..R24A-MOD  
 ..V(K)24A-MOD, ...F24A-MOD  
 ..RF24A-MOD  
 ..MV-D3-MOD, ..HV24A-MOD  
 EP..R+MOD, EP..F+MOD  
 PM..A-BAC-..  
 PR..A-BAC-..

## Interface descriptions

All corresponding interface descriptions are available for download on the Belimo website, for the respective products, under system integration.

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

Modbus Firmware Version	BACnet Application Software Version	Production Date	Content
3.08	Modbus Module V1.0	01.12.2023	<p><b>Supplement:</b> New objects for fail-safe actuators fail-safe bridging time / fail-safe position</p> <hr/> <p>Additional functions for override, fast open, fast close</p> <hr/> <p><b>Bugfix:</b> Behaviour control mode while power up</p> <hr/> <p>Behaviour in rare cases with ZTH EU message "No Device Found"</p>
3.04	03.04.-0000	01.04.2019	<p><b>Supplement:</b> Additional datapoint for sensor type selection</p> <hr/> <p>Extension datapoint sensor value with additional units [°C], [°F]</p> <hr/> <p><b>Bugfix:</b> VAV <math>V'_{min}</math>, <math>V'_{max}</math> limitations can be set again to <math>V'_{min}=V'_{max}</math></p>
3.02	03.03.-0006	01.06.2018	<p><b>Improvement:</b> Modbus bus watchdog timeout adjustable</p> <hr/> <p><b>Supplement:</b> BACnet functionality, fully downward compatible with FW version 1.x</p> <hr/> <p>Hybrid mode (analogue control, monitoring via Modbus / BACnet)</p> <hr/> <p>Setpoint source can be analogue or via Modbus / BACnet</p> <hr/> <p>Setpoint analogue in % available via Modbus / BACnet</p> <hr/> <p>Modbus unit flow selection for absolute volumetric flow and <math>V'_{nom}</math> for Modbus, BACnet implemented</p> <hr/> <p>Control mode (open loop / position control, closed loop / flow control) can be changed via Modbus and BACnet</p>

<b>Modbus Firmware Version</b>	<b>BACnet Application Software Version</b>	<b>Production Date</b>	<b>Content</b>
1.08		07.07.2017	<b>Improvement:</b> Bootloader behaviour
1.07		24.02.2017	<b>Supplement:</b> $V_{nom}^l$ for Modbus implemented Absolute volumetric flow for Modbus implemented
1.06		28.11.2014	<b>Bugfix Modbus:</b> Watchdog reactive after reset
1.04		01.06.2012	<b>Released without restrictions</b>

# 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 AG**

Brunnenbachstrasse 1, 8340 Hinwil, Switzerland  
+41 43 843 61 11, info@belimo.ch, www.belimo.com

**BELIMO**<sup>®</sup>