

# ZTH-GEN adjustment tool. On-site parameterising and testing.



> We set standards.

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## Ideal for system and retrofit business.

The ZTH-GEN adjustment tool considerably simplifies diagnostics, function testing and setting of all HVAC controlling elements. By connecting it directly to a parameterisable Belimo actuator, important actual values can be read off on site and adjusted without delay.

### **On-site adaptation of parameters**

Belimo offers a broad selection of parameterisable actuators for air dampers, valves, VAV controllers and fire dampers. These MF, MP, MFT and MFT2 types are programmed at the factory with basic values for the most common applications. Typical parameters such as running time, angle-of-rotation and stroke limitation or mode settings (0...10 V / 2...10 V) can be adapted to each particular application with the ZTH-GEN plug-and-play adjustment tool. Mechanical and electrical contractors or service personnel are saved considerable time whenever a system needs to be commissioned or parts replaced.

### **Simple diagnostics and testing**

The ZTH-GEN adjustment tool can be used simply to monitor the actuators or for direct control in order to simulate defined system scenarios. The unit integrates a whole series of powerful diagnostic functionalities: function test, position preset, test setpoint/actual value, test damper position and actual volumetric flow. The wide range of potential applications eases system maintenance and makes a valuable contribution to achieving maximum operational reliability.

# ZTH-GEN adjustment tool.

## Wide range of potential applications.



Adjustment tool 		Actuators and VAV controllers
Settable parameters	Diagnostic functions	General air solutions
<ul style="list-style-type: none"> <li>Running time</li> <li>Stroke limitation</li> <li>Mode (0...10 V, 2...10 V)</li> </ul>	<ul style="list-style-type: none"> <li>Function test</li> <li>Position preset</li> <li>Test setpoint/ actual value</li> <li>Test actual position</li> </ul>	<p><b>Damper actuators without a safety function:</b> LM24A-MF/MP (5 Nm), NM24A-MF/MP (10 Nm), SM24A-MF/MP (20 Nm), GM24A-MF/MP (40 Nm)</p> <p><b>Damper actuators with a safety function:</b> TF24-MFT (2 Nm), LF24-MFT/MFT2 (4 Nm), AF24-MFT/MFT2 (15 Nm)</p> <p><b>Linear damper actuators:</b> LH24A-MF/MP100/200/300 (150 N), SH24A-MF/MP100/200/300 (450 N)</p> <p><b>Rotary damper actuators:</b> LU24A-MF/MP (3 Nm)</p> 
Settable parameters	Diagnostic functions	Water solutions
<ul style="list-style-type: none"> <li>Running time</li> <li>Stroke limitation</li> <li>Mode (0...10 V, 2...10 V)</li> </ul>	<ul style="list-style-type: none"> <li>Function test</li> <li>Position preset</li> <li>Test setpoint/ actual value</li> <li>Test actual position</li> </ul>	<p><b>Linear actuators without an emergency control function:</b> NV24-MFT/MFT2 (1000 N), NVG24-MFT/MFT2 (1600 N), AV24-MFT/MFT2 (2000 N)</p> <p><b>Linear actuators with an emergency control function:</b> NVF24-MFT/MFT2 (800 N), NVF24-MFT/MFT2-E (800 N),</p> <p><b>Actuators for characterised control valves without an emergency control function:</b> LR24A-MF/MP (5 Nm), NR24A-MF/MP (10 Nm), SR24A-MF/MP (20 Nm)</p> <p><b>Actuators for characterised control valves with an emergency control function:</b> TRF24-MFT (2 Nm), LF24-MFT/MFT2 (4 Nm), ARF24-MP/-O (15 Nm)</p> <p><b>Actuators for butterfly valves without an emergency control function:</b> SR24A-MF/MP-5 (20 Nm), GR24A-MF/MP-5/MP-7 (40 Nm)</p> 
Settable parameters	Diagnostic functions	Room and system solutions
<ul style="list-style-type: none"> <li><math>\dot{V}_{MIN}</math>, <math>\dot{V}_{MAX}</math> setting</li> <li>Mode (0...10 V, 2...10 V)</li> </ul>	<ul style="list-style-type: none"> <li>Function test</li> <li><math>\dot{V}_{MIN}</math>, <math>\dot{V}_{MAX}</math> preset as setpoints</li> <li>Test actual volumetric flow preset</li> <li>Test actual volumetric flow</li> <li>Test actual position</li> </ul>	<p><b>VAV-Compact controllers:</b> LMV-D2-MP (5 Nm), NMV-D2-MP (10 Nm), SMV-D2-MP (20 Nm)</p> <p><b>VAV-Compact linear controller:</b> LHV-D2-MP (150 N)</p> <p><b>VAV-Universal controllers:</b> VRP-M, VRD3</p> 
	Diagnostic functions	Safety solutions
	<ul style="list-style-type: none"> <li>Function test</li> <li>Open/close preset</li> <li>Test actual position (open/close)</li> </ul>	<p><b>Actuators for fire dampers:</b> BF24TL-T-ST (18 Nm), BFG24TL-T-ST (11 Nm)</p> 

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