

Service tool for parameterisable and communicative actuators / VAV controllers and HVAC performance devices from Belimo.

- Connection via service socket on the device or MP/PP connection
- ZIP USB function


Technical data

Electrical data	Nominal voltage	AC 24 V, 50/60 Hz, DC 24 V (from actuator)
	Operating range	AC 19.2...28.8 V / DC 21.6...28.8 V
	Power consumption Operation	1 W
	Connection	Socket for connecting cable ZK1-GEN (3 m) supplied with connector
	Interface USB 2.0	USB socket type B, connecting cable (1 m) with socket A to B supplied
	Optional cables	ZK2-GEN, ZK6-GEN
	Interface	Communication
Operating modes	Parameterisation	Point to Point (PP) Connection using service socket or connecting terminals on the actuator
	MP level converter (ZIP function)	Connection in control cabinet or via service socket on actuator For MP monitor operation, connection on MP-Bus
	Operation	LCD display
	Keys	i / esc / ▲ / ▼ / OK
Safety	Protection class	III Safety extra-low voltage
	EMC	CE according to 2004/108/EU
	Operating temperature	0...50 °C, non-condensing
	Non-operating temperature	-20...50 °C, non-condensing
Dimensions / weight	Dimensions	L x W x D: 95 x 55 x 25 mm
	Weight	Approx. 135 g

Safety notes


- The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.
- Only connection to Belimo devices with 24 V safety extra-low voltage and PP/MP interface permitted.
- Changes to parameters etc. may only be performed following consultation with/specification from the OEM, device or mechanical/electrical contractor. Operating and adjustment regulations must be observed.

Definitions

- ZTH EU** The ZTH EU is sold worldwide. Therefore the product name for the European region is defined as ZTH EU. In the product information, the term ZTH is used to represent the ZTH EU.
- Actuators** For simplicity in the product information, the terms actuators, VAV controllers, fire damper actuators and HVAC performance devices are summarised using the term actuators.

Supported devices

Damper product range	.-MF / ..-MP / ..-MPL / ..-MFT(2) / ..-MOD / ..LON	
Valve product range	.-MF / ..-MP / ..-MPL / ..-MFT(2) / ..-MOD / ..LON	
EPIV - pressure-independent characterised control valve	P6..W..-MP / EP..R(..)+MP	available since 2011
Fire damper actuator	BF-TopLine with BKN230-24MP	
VAV product range	VRD2 / VRD2-L	available 1992-2007
	VRD3	available since 2008
	VRP-M (VAV and STP applications)	available since 2005
	NMV-D2..	available 1992-2000
	LMV-D2M / NMV-D2M..	available 2000-2006
	LMV-D2-MP / NMV-D2-MP / SMV-D2-MP.., LHV-D2-MP..	available 2006-2011
	LMV-D2LON / NMV-D2LON	available 2006- 2011
	LMV-D3-MP / NMV-D3-MP / SMV-D3-MP.., LHV-D3-MP..	available since 2011
	LMV-D3LON / NMV-D3LON	available since 2011
	LMV-D3-MOD / NMV-D3-MOD	available since 2012
	LMV-D3-KNX / NMV-D3-KNX, LHV-D3-KNX..	available since 2015
	CMV...-MP	available since 2013
	HVAC performance devices sharedlogic	According to system description (e.g. Energy Valve)
According to system description		

Connection

- Connection and supply** The ZTH EU is supplied via the actuator. The connection is set up
- either directly on the service socket of the actuator
 - or via PP/MP connection (U5), e.g. connection socket, control cabinet and room controller CR24

Type of connection and connection cable

	Suitable cable
	ZK1-GEN
	ZK2-GEN
	ZK4-GEN
	ZK6-GEN