



Delivered without miniature WSB markers

The 750-643 I/O Module acts as a master for the MP-Bus (Multi Point Bus of the Swiss company Belimo) and allows the bus to be integrated into a higher level bus network such as ETHERNET or LonWorks. The MP-Bus serves to control HVAC actuators like dampers, regulator valves or VAV air volume control. Another product series with MP-Bus connection is FLS (window ventilation system) from Belimo. Devices that are equipped with an MP-Bus connection, e.g. the Belimo MFT actuator series, can communicate with a higher level control via bus cable.

The actuators have connections for active and passive sensors (temperature, humidity, ON/OFF switch) and hence can also be accessed via MP-Bus. An MP Bus Master, i.e. the WAGO I/O module, can manage up to 8 slaves (actuators) + 8 sensors (1 sensor per slave) via a common bus cable which reduces the wiring of sensors and actuators considerably (cable lengths of MP-Bus cables see Belimo documentation). In order to parameterize the Belimo actuators, the I/O module can be connected to a Belimo parameterization tool (handheld control unit or Belimo PC tool). For this purpose use the "Enable Handheld" contact. If an external parameterization tool (or 24V) is connected, the module switches off the MP-Bus supply.

Description	Item No.	Pack. Unit
MP Bus Master module	750-643	1
Accessories		
Miniature WSB Quick marking system		
plain	248-501	5
with marking	see Section 11	
Approvals		
Conformity marking	CE	
Korea Certification	KC	
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
TÜV 07 ATEX 554086 X	I M2 Ex d I Mb, II 3 G Ex nA IIC T4 Gc, II 3 D Ex tc IIIC T135°C Dc	
IECEX TUN 09.0001 X	Ex d I Mb, Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc	

Technical Data	
MP Bus specifications	PP/MP specifications V1.21 from Belimo (Valid since 1.10.2002)
No. of slaves	max. 8
Voltage supply (MP-Bus)	24 VDC
Current consumption (MP-Bus)	25 mA without motor current (for MP-Bus) if the motors are supplied via the MP-Bus module, all motor currents must be added
Current consumption (internal)	15 mA
Power supply	via system voltage DC/DC
Isolation	500 V eff MP-bus/system
Internal bit width	1 byte C/S, 7 byte data
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 2.5 mm² / AWG 28 ... 14
Strip lengths	8 ... 9 mm / 0.33 in
Width	12 mm
Weight	51.4 g
EMC immunity of interference	acc. to EN 61000-6-2
EMC emission of interference	acc. to EN 61000-6-3