

Smart M-Bus Valve



Features and Benefits

M-Bus operated Shut-off Valve

Valve size from DN10 (3/8") to DN200 (8")

Compliant with all MBUS Masters

Industrial grade (PN20, IP67, fluid up to 140° c)

Realtime Valve status monitoring

Valve control (ON / OFF commands Via MBUS)

Value features pilot assistance / motorized ball Valve

Battery operated with ultra-low consumption (10 Years Life Span)

Control & Monitor thru Mobile App

Extensive Cloud base / on Premise Application

IP 67 enclosure

Suitable for Potable/Chilled/Hot water (-20° c to 70° c)

TechKnave M-BUS Shut off valve is a battery - operated SMART VALVE used for opening and closing the valve through M-BUS control telegram. The MBUS SMART VALVE shall be used in Sub-metering solutions, Building management Applications, Facility management companies for remote disconnection of Shut off valves. TechKnave M-BUS SMART VALVE comprises of Controller unit and Valve assembly.

The Controller Unit (CU) has on-board terminals for connection to M-BUS loop & Valve unit. The replaceable lithium battery has autonomy of 10+ years. The CU provide Open/ Close status, Low battery status in real time monitoring. Controller Tamper status and Manual Override (ON/OFF button inside CU) features are optional to add.

The special designed Low power detached valve units installed in the pipeline and shall be terminated to the CU adjacent to the valve. TechKnave M-BUS valve units are of 2 variants. Motorized Ball valve assembly unit & Pilot assisted Diaphragm valve assembly unit. The Motorized valve unit upto DN32 (1 1/4") size are battery operated & higher sizes operated via external power. The Pilot assisted valve unit are battery operated upto DN80 (3") size.



CU Specification

Product ID	: 1211 AXX, 1211 BXX, 1211 E	Communication technology	: Wired MBUS
Power supply	: Lithium battery (replaceable)	Baud rate	: 2400
Security	: MBUS manufacture specific telegram	Cable length	: 0.5m to 1m
Max. valves per project	: Not limited (each valve has a unique ID key)	Working t°	: -20° c to +70° c
Tamper	: Enclosure open status alert (optional)	MBUS valve control Software	: Prime/Advanced/Cloud
Data Read	: OPEN/CLOSE status, Battery level, enclosure tampering, last controlled time, Control Type.		
Data Write	: OPEN/CLOSE command, set primary address		
Manual override	: Press buttons for local OPEN/CLOSE (Located inside the CU optional)		

Diaphragm Valve Specification



Pipe Section	: DN15, DN20, DN25, DN32, DN40, DN50, DN65 & DN80 (All Sections Battery Operated).
Minimal differential pressure	: 200mBar
Maximum differential pressure	: 10 Bar/145 Psi
Maximum fluid t°	: -10° c to +55° c (NBR) -20° c to +140° c (EPDM)
Fluid support	: Potable/Cold/Hot/Steam
Body and cover	: Brass
Armature, plunger and core	: Stainless steel
Seal material	: NBR/EDPM
Maximum fluid pressure	: 20 Bar - DN 10 to DN 80
IP protection	: IP67
PN rating	: Upto DN32 - PN 25, DN40 to DN80 - PN 20

Motorized Valve Specification



Pipe Section	: DN20, DN25 & DN32 (Battery Operated) DN40, DN50, DN65, DN80, DN100, DN125, DN150 & DN200 (External Power Supply)
Maximum fluid t°	: -10° c to +55° c
Fluid support	: Potable/Cold/Hot/Water
Body and cover	: Brass
Armature, plunger and core	: Stainless steel
Maximum fluid pressure	: 20 Bar - DN 10 to DN 80
IP protection	: IP67
PN rating	: Upto DN32 - PN 20, DN40 to DN200 - PN 16

Enclosure Dimension Dimension : 100 X 100 X 60 mm

Software View



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