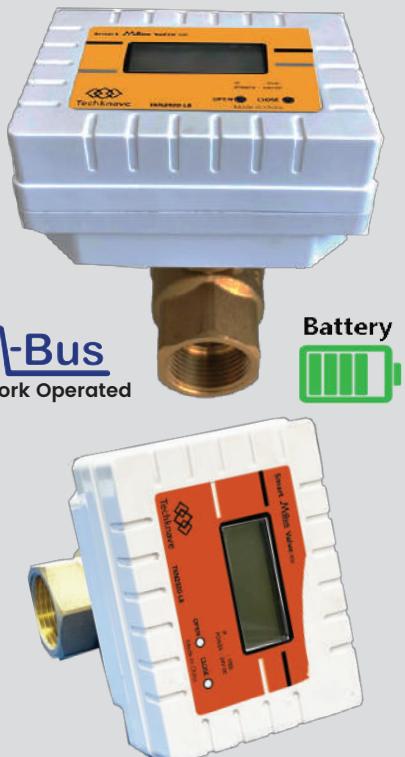




Techknave

## Smart Mbus Valve compact

TKN29XX-C / TKN29XX-CB



### FEATURES

- ◆ MBus operated smart shut off valve
- ◆ Battery operated (16+ Years , Replaceable Lithium type C battery)
- ◆ Valve Sizes—DN20, DN25, DN32, DN40
- ◆ Complaint with most MBus masters
- ◆ Polarity reversal protection
- ◆ Industrial Grade (PN16, IP68)
- ◆ Controller with RTC
- ◆ Suitable for potable / Chilled / Hot water
- ◆ Full open / Full Close - Physical reed switch feedback

Compatible with



### INTRODUCTION

**Techknave MBus smart valve compact TKN29XX** is operated on MBus wired protocol and used for opening and closing of valve. Can be used in Sub-metering solutions, Building management Applications, Facility management companies for remote disconnection. Mbus smart valve compact improve the efficiency, safety and reliability of varies industrial processes, leading to cost savings and better outcomes.

**TKN29XX** is a integrated valve unit delivered with electronic actuator and valve assembly as non-detachable. TKN29XX delivered in 2 versions (24V Powered TKN29XX-L & Battery Operated TKN29XX-LB ).

### APPLICATIONS

**SUB METERING (DISTRICT COOLING / BILLING COMPANIES) :** Techknave MBus smart valve helps District cooling / Sub metering billing companies / Facility management companies to shutoff chilled water supply in sub-metering side water distribution. Remote shutoff command shall be issued from command center remotely in case of non-payment or leak detection.

**BUILDING AUTOMATION :** Techknave MBus shutoff valves are used in building automation systems to control the flow of water in heating, ventilation and air conditioning (HVAC) systems. They help to regulate temperature and humidity levels in buildings, which can improve energy efficiency and occupant comfort.



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**TKN29XX-C**  
**TKN29XX-CB**

## TECHNICAL SPECIFICATION

SPECIFICATION	DESCRIPTION
POWER SUPPLY	24V DC or Replaceable Lithium battery (3.6V, 8500 mAh, type C)
PIPE SIZE	DN20, DN25, DN32, DN40
PRESSURE RANGE	PN16
IP RATING	IP68
INDICATIONS	<p><b>DISPLAY</b> - To show secondary id / Mbus command receive</p> <p><b>OPEN</b> - LED indication (Valve Open)</p> <p><b>CLOSE</b> - LED indication (Valve Close)</p>
VALVE FEEDBACK	Valve position feedback by two physical reed switch (open/close)
MATERIAL	<p><b>Actuator:</b> PC-ABS</p> <p><b>Valve Body / Ball Material:</b> Brass</p> <p><b>Seal:</b> EPDM/FKM</p>
MEDIUM TEMPERATURE	0~+100 °C
AMBIENT TEMPERATURE	-20 °C to 50 °C
LOCAL DISPLAY	LCD Display with Back light
MBUS TELEGRAM RESPONSE PARAMETERS	<p>Valve position feedback</p> <p>Battery Voltage</p> <p>RTC</p> <p>Time period of last position</p>
SOFTWARE SUPPORT	UBill IBM Billing Software / UBIII VCM
COMMUNICATION PROTOCOL	Wired MBus
BATTERY LIFE	16+ years ( Refer our lifetime calc sheet)

## ORDER ID DETAILS

### COMPACT VERSION with Battery operated

TKN2920-CB	DN20 valve - Compact version with battery operated
TKN2925-CB	DN25 valve - Compact version with battery operated
TKN2932-CB	DN32 valve - Compact version with battery operated
TKN2940-CB	DN40 valve - Compact version with battery operated