

MBus Compact Switch **TKN2101C**



► Features:

- MBus Switch compact unit with relay contact suitable for 2 / 3 & 4-wire SPST & SPDT type shutoff valve
- Externally powered valve 230VAC Controlled through MBUS compact switch
- Valve sizes - DN15 to DN200
- Complaint with all leading M-Bus master (EN-13757)
- Industrial grade - ABS, IP66
- Provision with valve feedback monitoring
- Valve Control (ON/OFF commands via MBus)
- Tamper alert & Indication LED (Valve position / Error status)
- Compatible & operated through IBM billing software / VCM software

► Introduction:

The new Techknave M-Bus switch compact is M-Bus slave relay output module with potential free NO/NC contact with valve position feedback monitoring suitable to operate powered 2-way shut off valve. The compact switch has 17 on-board easy plug-in terminals for Incoming power / Valve power out / Valve feedback / M-Bus looping & optional Pulse inputs. The M-Bus switch along with powered valves shall be used in sub-metering solutions, building management applications, facility management companies for remote disconnection of liquid flow.

Few validated working models:

- Honeywell butterfly valve
- ISMA CONTROLLI ball valve actuators
- Neptronic 2-way contoured port valves
- Herz two way actuators & valves
- Schneider VF208 butterfly valves
- Techknave TKN23xxP power operated valves

► Order Code:

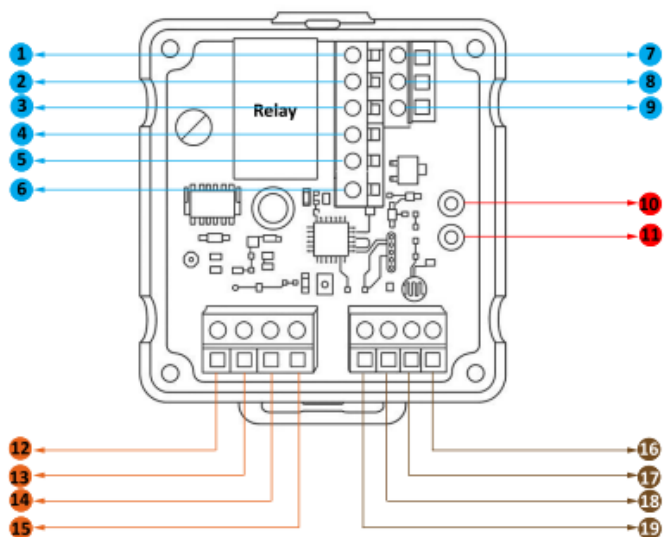
Techknave M-BUS switch compact : **TKN2101C**

For Techknave power operated valves: **TKN23xxP** -where the **xx** represent the pipe **DN** size.

Customers can buy both M-Bus switch & TKN power operated valve together or alternative they can buy only the M-Bus switch and free to choose their 2-way shut off valves.

► Dimensions:

100 * 80 * 35 m (W * H * D)



Valve Power & Feedback

- 1: Out-Close to Valve
- 2: Out-Phase to Valve
- 3: Out-Open to Valve
- 4: Out-Neutral
- 5: In-Phase to SW
- 6: In-Neutral to SW
- 7: Open Feedback
- 8: Out-Phase FB
- 9: Close Feedback

Control Buttons**

- 10: Open - Button
- 11: Close - Button

M-Bus Looping

- 12: M+(IN/OUT)
- 13: M-(IN/OUT)
- 14: M+(IN/OUT)
- 15: M-(IN/OUT)

Pulse Counter*

- 16: CH1 - Pulse+
- 17: CH1 - Pulse-
- 18: CH2 - Pulse+
- 19: CH2 - Pulse-

Note:

- The Pulse Counter is an optional module in the TechKnave M-Bus Switch. Models without the Pulse Counter are also available.
- The M-Bus loop must be powered, and the device LED indication should be verified before attempting operation.

M-Bus Switch Connection Diagram