



ADO RF/LoRa Valve



Characteristics:

Frequency: 868MHz
Transmitter output power: 13dBm
Receiver sensitivity: -114dBm
Data transfer rate: 9.6kbps
Bandwidth: 25kHz
Frequency deviation: ± 4 kHz
Modulation: 2FSK
Antenna: 1/4 helix about -3dBi
Range: about 1000 m in open space
Power supply: LiSOCl₂ battery 3.6V
Number of cycles (closing - opening): about 800
Closing time: 5 sec

ADO RF/LoRa Valve is a valve designed for automatic remote closing and opening for which the command close/open is sent wirelessly, i.e. via radio. The valve is widely used in water and gas supply systems, industry, food industry as well as in irrigation systems. The valve can be used for flow control of any fluid provided it is not chemically aggressive and it does not exceed the temperature of 90°C nor the pressure of 10 bar.

The valves are manufactured in standard sizes DN15 to DN50. They use their own LiSOCl₂ battery supply (3,6V) which provides for about 800 close-open cycles.

The device has following functions:

- Complete closing or opening (OFF/ON function)
- Partial opening or closing (for example, decreasing the flow to a certain percentage)
- Time-controlled closing and opening
- Closing after certain flow

The valve can be used as a conventional valve and close and open the flow by the remote (wireless) command when needed. In addition to its standard function of complete closing and opening on request, the valve also has option to reduce the flow to a certain percentage, time-set, fully automatic opening and closing (configuring the valve when to open and when to close).

If the valve is used in combination with the water meter and the wireless ADO module for remote reading, the valve can be configured to close after a certain quantity of water has passed through the water meter, making it particularly suitable for use in hotels, weekend settlements or anywhere else where water or gas should or can be billed by pre paid system.