SMART VALVE SVM-21E SMART M-BUS VALVE



Attention:

Installation should only be carried out by qualified and trained personnel Violation and removal of the manufacturer's seals is not allowed, otherwise the warranties are void Welding on pipes near the smart valve is prohibited. The device must be dismounted before welding The ambient temperature should be between -25 °C and 65 °

User Manual

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1. General

This guide is intended for trained specialized personnel. For this reason, no basic working steps are included.



The smart valve tamper-evident seal must not be damaged! A damaged seal will result in immediate invalidation of the factory warranty and verification or declaration of conformity.



The installation must only be carried out by a specialist company. The personnel must be trained in the installation and handling of the equipment.



Medium

Water according to AGFW-Worksheet FW510 (the lifecycle of the smart valve may be impaired if not observed).

1.1 Operating conditions



The temperature conditions for the smart valve depends on the application and can be found on the printing of the valve.

Climatic conditions

The ambient temperature must be between -25...65 °C.

2. Transport and storage

Unpacking

Smart valves are control valves which must be handled with care. To protect against damage and soiling, they should only be unpacked immediately prior to installation.

Transport

The transport of the smart valve is permitted only in the original package.

Storage

- The smart valve must only be stored in a dry location.
- Typical storage temperature +5 °C ... 55 °C
- Relative humid environment < 95 %

3. Assembly / Installation



M-Bus communication cables are to be installed far away from other power lines.



When choosing the installation location, make sure that the smart valve is perfectly accessible for service and operating personnel.

3.1 Installation:

- Before installing the smart valve flushing needs to be carried out to remove any debris in the branch pipe to avoid blockage.
- The installation position of the smart valve should avoid exposure to sunlight, flooding, freezing, chemical and electromagnetic pollution, and be convenient for disassembly and maintenance.
- The installation position of the valve body should be facing upwards when mounting on the pipeline.

4. Communication

4.1 M-Bus wired

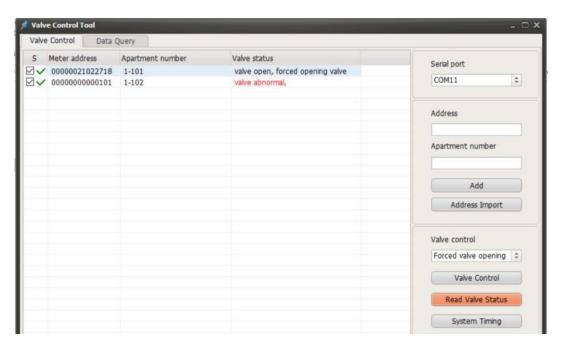


A 2 pin M-Bus line lead out of the housing. Connect the M-Bus line with the marked connections of the M-Bus Master.

- Standardized according to EN 13757-3
- Galvanic isolation
- Polarity reversal protection
- Power consumption: One M-Bus load
- Primary or secondary addressing
- Baud rate 2400 baud
- Protocol: M-Bus

5. Software Interface

5.1 General user interface

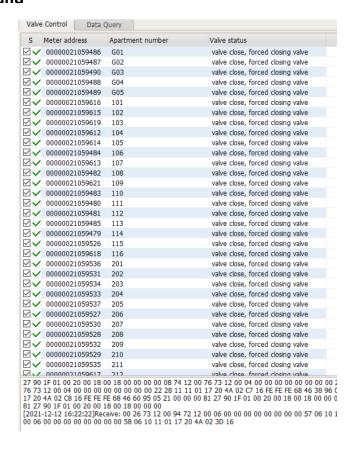


5.2 Smart valve control screen

5.2.1 Valve status check



5.2.2 Valve close command



5.2.3 Valve open command



6. Maintenance



Smart valve may not be disconnected from the integrator. After repair work, perform software testing to ensure valve operation.

7. Disposal



The smart valve contains a lithium battery, which is not rechargeable. Do not use force to open the battery. It must never come into contact with water, short-circuited or exposed to temperatures over 75 °C.

Empty batteries and no longer required electronic devices or components are hazardous waste.

This device must not be disposed together with the domestic waste. Return it to the manufacturer for recycling.

