

Solenoid valve oxygen M7 LowEnergy

Manual



Product type

Product name:	Solenoid valve oxygen M7 LE
Type:	MVO-M7-LE-SC
Art.-Nr.:	3022
Hersteller:	SENECT GmbH & Co. KG An 44 – Nr. 11 76829 Landau / Germany

Important note:

Please read this manual carefully and store it so that you can use it later. Read the warning and safety notes attentive.

More information and latest software releases or documents can be downloaded from:

www.senect.de

Further information, application descriptions and answers to frequently asked questions can be also found on the SENECT Forum:

<http://forum.senect.de/>




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Used symbols and wording

	<p><i>DANGER!</i></p> <p>Warning of life threatening dangers.</p> <p><i>WARNING!</i></p> <p>Warning of possible life threatening and / or severe irreversible injuries.</p> <p><i>ATTENTION!</i></p> <p>Warning of possible medium or slight injury.</p>
	<p><i>ATTENTION!</i></p> <p>Follow the notes to avoid damage of equipment</p>
	<p><i>NOTE!</i></p> <p>Further information for the use of the device!</p>

General Security Notes

The solenoid valve M7 LowEnergy is an electrically controlled solenoid valve for the use of air or oxygen.



As this is an electrical product, the usual requirements, as with all electrical appliances, must be met. The device may only be operated with compatible control units or control units approved by SENECT. The device and all connected cables must be installed and operated protected from moisture and wetness. When laying all cables and lines, care must be taken that no safety-relevant impairments such as tripping hazards occur. For many applications, fuse protection by a residual current circuit breaker with a tripping current < 30 mA is mandatory. Find out more about this.

The device must be installed protected from overheating by direct sunlight and must only be operated at an ambient temperature between 0°C and +50°C. It must also be ensured that oxygen cannot be enriched in the event of a fault. Observe all relevant safety regulations.

The solenoid valve M7 LowEnergy is delivered free of oil and grease and is suitable for use with oxygen. Make sure that any other parts (e.g. fittings, pipe parts) that come into contact with oxygen are also free of oil and grease.

It is forbidden to open the device or to penetrate the inside of the housing in any way.

The M7 LowEnergy solenoid valve is not intended for use by persons (including children) with limited physical, sensory or mental abilities or for lack of experience and/or knowledge, unless they are supervised or instructed by a person responsible for their safety on how to operate the device.

Please keep these instructions for use as a reference. Technical and optical changes as well as printing errors reserved.

Intended use

The solenoid valve M7 LowEnergy is used to control the oxygen supply via oxygen supply devices (e.g. ceramic diffusers) in industrial fish farming and holding systems. The valve's electronic unit ensures that the valve functions as a "normally open" valve type, but minimizes power consumption while the valve is closed - minimizing self-heating.

To ensure proper function, the valve may only be used in conjunction with the SENECT control units.



Do not use the solenoid valve M7 LowEnergy in combination with power supply units.

Getting started

Scope of delivery

- 1 x solenoid valve M7 LowEnergy incl. electronic unit and connection cable
- 1 x Manual

Note



Please make sure that the packaging was undamaged and not opened before commissioning and that all positions indicated in the scope of delivery are present. If you discover any defects, damage or the absence of items included in the scope of delivery, please report this immediately within 14 days. Subsequent complaints about defects that have already occurred before commissioning can no longer be accepted.

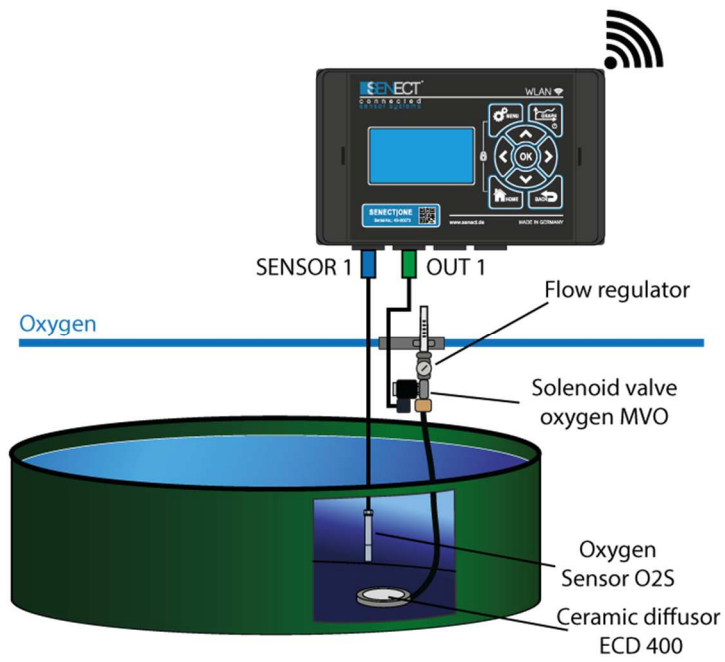




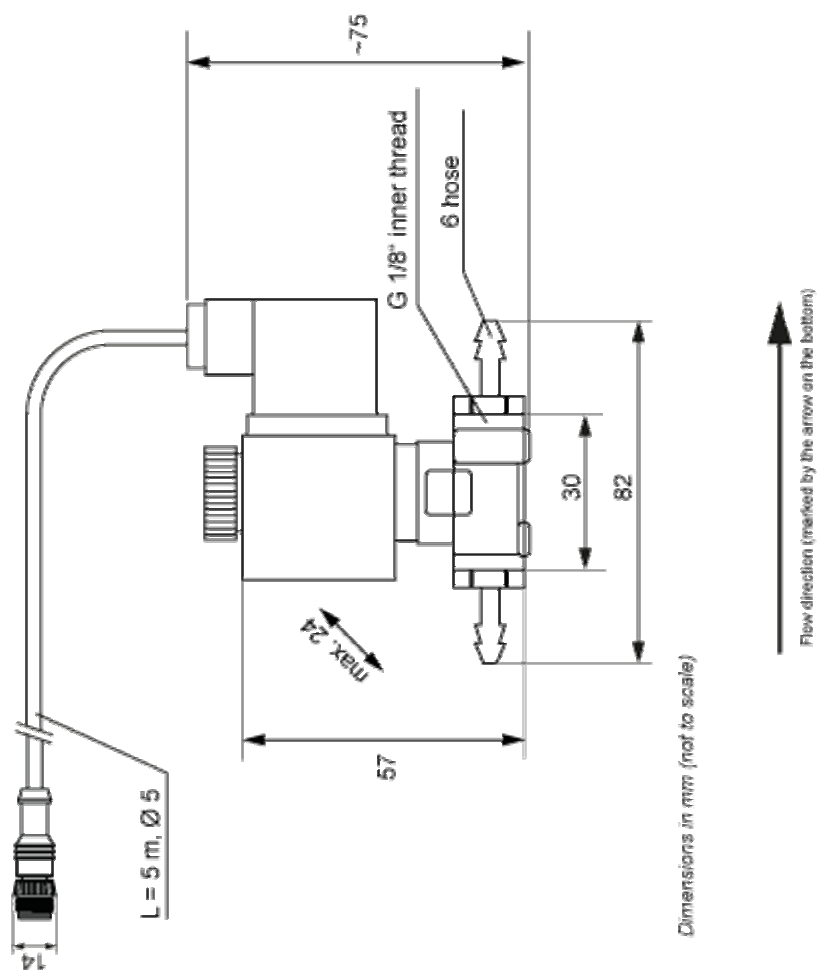
Fig. 1: Application example for the control of oxygen in a tank.

Installation and start-up

1. The solenoid valve is installed behind a flow regulator in the low pressure range. First stop the oxygen supply.
2. For installation, the connections of the counterpart (e.g. quick couplings) or the hose nozzles - if the thread is used - are sheathed with sealing tape suitable for oxygen and screwed into the solenoid valve. Always fix a hose with hose clamps.
-  3. Pay attention to the **installation**  **direction!** On the underside of the solenoid valve there is an arrow indicating the direction.
4. Connect the connection cable to your SENECT controller at one of the actuator slots (label OUT).
5. Open the oxygen supply to the solenoid valve again and check the tightness of the screw connections.
6. Now you can make the desired settings in the menu of your controller. Select "Low active" as the polarity of the output.

Technical information

Dimensions:	30 (installation length, incl. hose nozzle 83) x 75 x 24 mm
Material:	Brass, seal FKM
Cable length:	5 m
Mode:	Normally open
Process connection:	G1/8" inner thread, hose nozzle 6 mm or NW7.2 quick coupling
Voltage:	24 V DC
Power consumption:	< 2,5 W
Temperature range:	0° to +50°C surrounding
Maximum pressure:	3 bar
Ingress protection:	IP 67



Information about the correct disposal



Your device is well packed at delivery. Please dispose the packaging material accordingly to the regulations in your country.

Do not throw the product in the casual litter bin. Make sure you are informed about the local disposal regulations and dispose your product accordingly. Alternatively, you can also send the product back to the producer.

The SENECT GmbH & Co. KG is member of the Stiftung Elektro-Altgeräte Register and the products are registered (WEEE-Reg.-Nr.: DE37193510).

Guarantee



Please check at delivery of your device, that all parts are delivered completely and that they function correctly. In case of any claims, contact us immediately per email or phone (info@senect.de or +49-6341 - 95 95 210). Please describe your claim as detailed as possible so that we can provide a solution as fast as possible. The product has a guarantee of 1 year and a warranty of 2 years. Furthermore, the § 377 HBG (German law) is valid.