Solenoid valve oxygen M7

MANUAL

Product type

Product name:	Solenoid valve oxygen M7
Type:	MVO-M7-SC
Art.-Nr.:	3020
Producer:	SENECT GmbH & Co. KG An 44 – No. 11 76829 Landau / Germany

<u>Important note:</u>

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/phpbb/

© SENECT GmbH & Co. KG - FW 00.80

Table of contents

Used symbols and wording

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

General Security Notes

The Solenoid valve oxygen M7 is an electric valve for oxygen gas or air with a maximum operating pressure of 7 bar.

Since it is an electric product the common prerequisites for a safe instrument usage must be fulfilled. Ensure that all cables are installed safely so that no obstacles for persons are built and all. Mount all cables and electric devices protected against direct environmental impacts like overheating by direct sunlight and water. Even if the product is protected against spray water, the product´s lifetime will be elongated, if it is mounted on a protected place. The Solenoid valve oxygen M7 uses 24 V DC supply voltage which is therefore not of danger for persons.

The operating temperature of the device must be between 0°C and +50°C. It must be ensured that even in case of an error like a leakage, oxygen cannot be enriched and get a threat. Installations of the gas piping must be done by professionals according to the local laws.

The device is designed to be operated by professional users. It can be also operated by children over the age of 8 years and persons with limited physical, sensorial or cognitive ability, if they are supervised, trained in the operation of the

device, able to operate the device safely and if they understand potential risks resulting from the operation. It is for children or persons with limited physical, sensorial or cognitive ability not allowed to perform any maintenance works.

> **Warning:** In constant operation (switched on / closed) the solenoid consumes electric power and heats itself up to +80°C. Ensure that the heat is transported away by mounting it on a location with sufficient aeration. Do not touch the valve during operation.

Please consider in your technical design and the settings of the control unit for the valve that it is not permanently closed, but opens regularly to avoid overheating. Here you can for example use the "**Additional function**" "**Time control**" to open it regularly, e.g. every 30 min for 3 min.

Please store this manual. We suggest the storage a copy of the manual in the vicinity of the device.

Technical and optical changes of this manual are subject to alterations.

> **Warning:** Before doing any maintenance work switch off all electric devices or unplug the mains plug.

Intented use

The solenoid valve oxygen M7 is designed to switch on and off the oxygen supply of individual aquaculture units, e.g. via ceramic diffusors. Its normally-open status allows that in case of a power fallout, the valve opens and the fish get oxygen to survive.

The solenoid valve oxygen M7 is developed for the use in industrial aquaculture farms by professional users.

Getting started

Scope of delivery

- 1 x Solenoid valve oxygen M7 incl. 5 m cable
- 2 x Brass hoses G1/8", 6 mm
- 1 x Manual

Note

Please check directly after delivery, that the package is not destroyed or damaged or was opened before. Please check also, that all parts as listed above are included. If anything is missing or broken, please contact us as soon as possible within 14 days. Unfortunately, we cannot accept later information of damage, which happened during the transport.
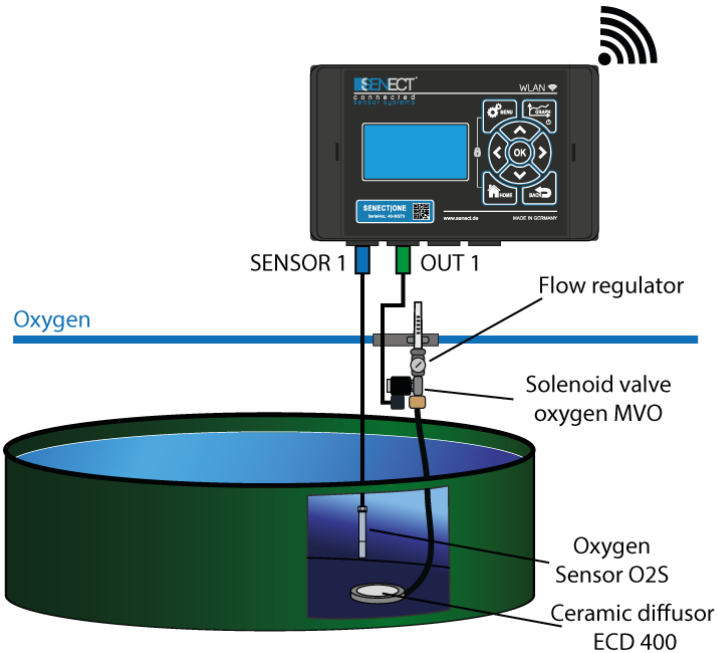
Fig. 1: Application example for the control of oxygen in a tank.

Installation and start-up

1. The valve must be installed behind a pressure reduction and flow regulation device. Make sure that the oxygen supply is switched off and that remaining oxygen in the piping is removed.

2. Mount the valve into your piping. You can either use the delivered hoses to connect the valve with tubes or you can also screw it into the corresponding piping parts. Use only sealing tape which is authorised for oxygen applications.

Ensure that all parts are fat and oil free! Risk of burning!
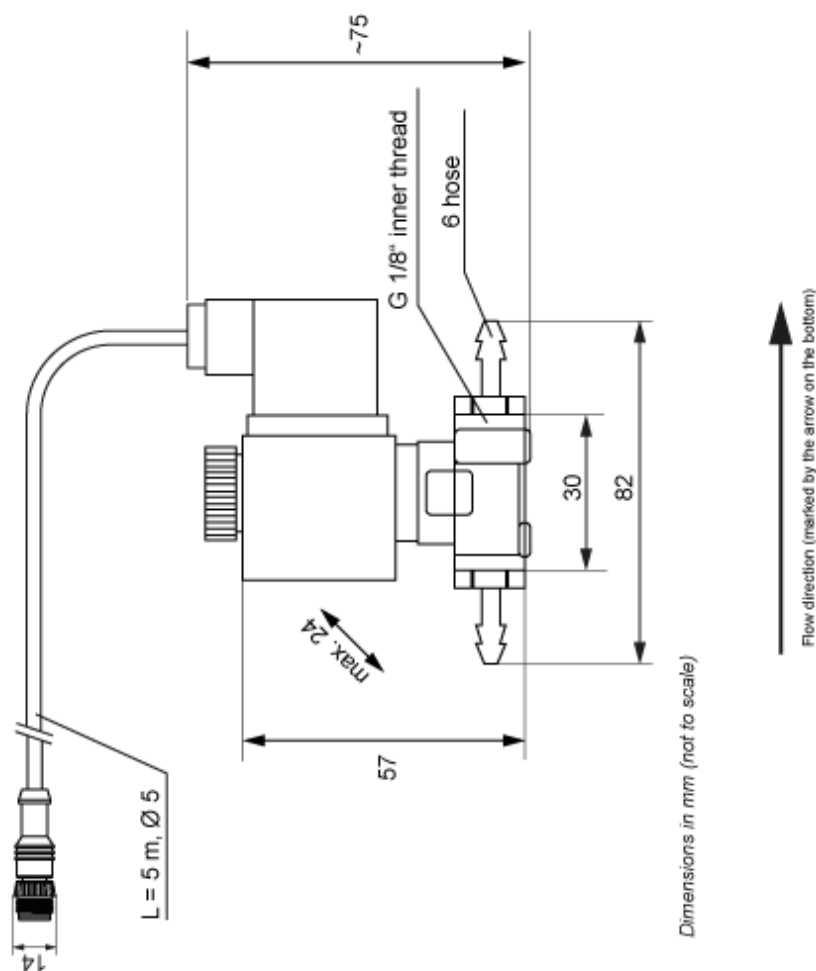
3. Mind the direction of flow! It is indicated by an arrow on the bottom of the valve.

4. Check for eventual leakages.

5. Connect the cable to your SENECT control unit to one of the green marked actuator output ports labelled with OUT.

Now, you can arrange all the settings and use your Solenoid valve!

Technical information

Dimensions:	30 / 83 (installation lenght) x 75 x 24 mm
Material:	Brass, seal FKM
Cable length:	5 m
Mode:	Normally open
Process connection:	G1/8" inner thread, hoses 6 mm
Voltage:	24 V DC
Power consumption:	Typ. 10 W
Temperature range:	0° to +50°C
Maximum pressure:	7 bar
Ingress protection:	IP 67
Compatibility:	With all SENECT control units

~75

G 1/8" inner thread

6 hose

82

30

57

max. 24

L = 5 m, Ø 5

14

Dimensions in mm (not to scale)

Flow direction (marked by the arrow on the bottom)

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.