

HALCYON™_AMBIOS



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1 Introduction

Congratulations on purchasing your Symbios Tank Pod. The Symbios Tank Pod is an advanced, digital submersible pressure gauge (SPG) for accurately measuring scuba tank gas pressure. The Symbios Tank Pod also includes a patented feature that allows divers to measure their horizontal position in the water. This industry-leading feature allows divers to receive real-time feedback on their position, enabling them to identify how flat they are in the water. A flat, horizontal position develops less drag while swimming, reducing effort, gas consumption, and damage to marine environments. This data is transmitted, along with tank pressure, to a Halcyon Symbios heads-up display (HUD) or Handset.

The Symbios Tank Pod, together with a compatible Halcyon dive computer, is classified as personal protective equipment (PPE) under the EU Regulation 2016/425 and protects against risks listed under PPE Risk Category III (a): substances and mixtures which are hazardous to health.

Based on EU PPE Regulation 2016/425 Annex I, the Symbios Tank Pod is designed to protect the user from drowning (Category III (i)). The Symbios Tank Pod performs this function by transmitting tank pressure information to the user's compatible dive computer, which allows the user to take appropriate, life-saving action.

Backup instruments, such as a depth gauge, submersible pressure gauge, timer, or watch, must be used in conjunction with the Symbios Tank Pod.

Symbios Tank Pod at a Glance

- **Wireless tank pressure monitoring** – Transmits tank pressure directly to a Symbios Handset or HUD.
- **125 kHz magnetic transmission technology** – Reliable communication designed to support multiple wireless devices simultaneously.
- **Integrated trim sensor** – 3-axis accelerometer measures diver orientation and provides real-time trim feedback through the dive computer.
- **User-replaceable CR123 battery.**

1.1 Safety Considerations

Before using the Symbios Tank Pod, you must read and understand the information provided in this manual in its entirety, and you must be aware that diving has many inherent risks. You must recognize that a dive computer can increase your diving safety, but it does not eliminate the remaining risk of serious injury or death caused by decompression sickness, oxygen toxicity, or other inherent risks of scuba diving.

Do not use this Symbios Tank Pod if you are not aware of or do not accept these risks.

This manual uses the following symbols to indicate important precautions. Those precautions provide information about potential hazards and proper procedures. Three different safety signs are used to rank their importance: orange for vital information that must not be ignored under

any circumstances; yellow advises caution, and blue indicates technical or other recommendations for safe and reliable operation of the device.

1.2 Warnings

⚠ WARNING

Although the Symbios Tank Pod is extremely reliable, there is a chance it could still fail. In such a rare instance, pressure information may be absent or incorrect, and in that case, the dive computer might report a tank pressure that reads too high or too low. A backup analog SPG must be used.

⚠ WARNING

Before using the Symbios Tank Pod, read the manual in its entirety and make yourself familiar with all the functions of the device.

⚠ WARNING

If you do not fully understand how to use the Symbios Tank Pod, or if you have any questions, contact your instructor or your authorized dealer before diving with it.

⚠ WARNING

Divers must have successfully completed a course in scuba diving. They must have knowledge of the potential risks and hazards associated with scuba diving.

⚠ WARNING

Do not use the Symbios Tank Pod if it shows any signs of damage or malfunction. Contact Halcyon Dive Systems or an authorized repair center.

2 Installation

The Symbios Tank Pod features a 7/16"-20 UNF port and can be connected to a high-pressure port of a first-stage scuba pressure regulator. A 19 mm (3/4 in) wrench can be used.



⚠ WARNING

In the case of a mechanical pressure sensor failure, the flow restrictor can limit the maximum gas flow through the Symbios Tank Pod.



⚠ WARNING

Use a first stage with two high-pressure ports, so that a backup SPG can also be connected.

NOTICE

Installation torque should not be over-tightened; excessive force is not needed. Maximum torque is 7 Nm/62 in-lb.

NOTICE

To optimize the reliability of the data transmission, install the tank transmitter on the same side you wear your dive computer on.

3 Activation

As soon as the Symbios Tank Pod reads more than 2 bar/29 psi, it will start transmitting tank pressure as well as position data.

- _ Tank pressure is transmitted approximately every 4 seconds.
- _ Position data is transmitted in 1-second intervals.

3.1 Pairing

Symbios Tank Pod

Install the Symbios Tank Pod on the first stage. The Symbios Tank Pod is suitable for tank pressures up to 300 bar/4351 psi.

Attach the first stage to the tank and open the tank valve.

Wait approximately 30 seconds for the transmitter to switch on.

The Symbios Tank Pod and the Symbios dive computer should be in close proximity (ideally <40 cm/16 in).

Navigate to → menu → SETTINGS → PAIRING → TANK POD → TO GAS

Short-press either button to navigate, and select the gas entry that pairs with the Symbios Tank Pod. You may enter gases in the edit gas section or via the Halcyon app.

Press and hold button A to select a gas entry.

Press and hold button A to start pairing.

If the pairing process is successful, the tank pressure will be shown.

If you do not want to pair a tank pod to a gas in the gas table, you can also pair it independently of the gas table to T1, T2, T3, or T4.

Navigate to → menu → SETTINGS → PAIRING → TANK POD → TO NUMBER

A Symbios Tank Pod can only be paired with one entry in the menu. It needs to be unpaired before pairing an already paired transmitter with a new gas entry.

Symbios Trim Sensor

The Symbios Tank Pod is equipped with a high-resolution, 3-axis accelerometer, which allows assessment of diver trim. After pairing a Symbios Tank Pod, pair the trim sensor to either a gas entry in the gas table or an entry from the number table.

Ensure the Symbios Tank Pod is pressurized and transmitting tank pressure data.

Navigate to → menu → SETTINGS → PAIRING → TRIM SENSOR

Press and hold Button A to start pairing.

Please note that the trim sensor must be calibrated in order to function, as detailed in Section 4 on diver position.

3.2 Battery Verification and Replacement

You can check the battery level of your Symbios Tank Pod with your Halcyon Symbios Handset or HUD.

Find the information in the following screens of your device for all tank pods that are paired to the device:

—If paired as a gas, the battery level can be found in the pairings screen, the gas edit screen, and the gas select screen.

—If paired as a number, the battery level can be found in the pairings screen.

Please note that battery levels are not transmitted at the same frequency as other data.

It can take up to 3 minutes to receive the battery level data on your unit.

The CR123 battery can be replaced by the user.

1. Ensure the Symbios Tank Pod is fully depressurized, then disconnect it from the first-stage high-pressure port.
2. Remove the three screws with a Torx T10 screwdriver.



3. Replace the battery in the required orientation (see [Section 3.3: Enabling or Disabling the Trim Sensor](#)).

4. Ensure the connecting clamps around the battery remain in contact with the battery's ends.

5. Inspect the O-ring (26x2 NBR 70) and replace it if necessary.

6. Lightly lubricate the inspected or replacement O-ring with silicone grease.

7. Install the cap and secure it with the three screws.





3.3 Enabling or Disabling the Trim Sensor

Position data transmission can be enabled or disabled. There are several situations where the diver might prefer to have no transmission of position data:

- _ If you use the Symbios Tank Pod with decompression/stage tanks, where position data is irrelevant.
- _ If you use several wireless devices simultaneously and want to reduce data traffic.
- _ If you want to conserve battery power.

Position data transmission is enabled or disabled by installing the battery in two orientations:

- _ If the positive terminal of the battery is oriented toward the high-pressure port, position data transmission is disabled.



- _ If the negative terminal of the battery is oriented toward the high-pressure port, position data transmission is enabled.



NOTICE

When the Symbios Tank Pod is not pressurized, it will neither transmit pressure nor position data to reduce power consumption.

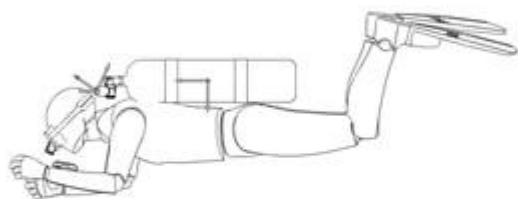
NOTICE

Depressurize the Symbios Tank Pod on the surface in order to reduce the power consumption.

4 Diver Position (Trim)

The Symbios Tank Pod, in combination with a Symbios dive computer, can measure the diver's tilt or horizontal position in the water. It includes a patented feature that gives divers real-time feedback on their position, letting them precisely measure how flat they are. Information about the diver's position is available on the CUSTOM FIELDS of the dive computer and is displayed in degrees as a negative or positive angle from horizontal. To accomplish this, the Symbios Tank Pod includes a 3-axis accelerometer, which measures the vector of the Earth's gravity and, from this, calculates the diver's tilt.

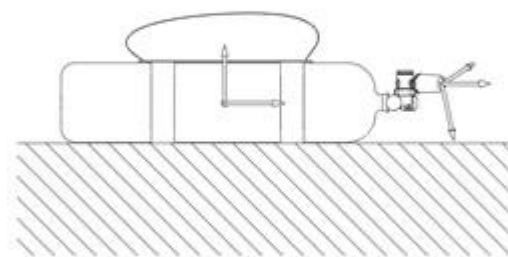
1. The Symbios Tank Pod measures 3-axis acceleration with respect to the spatial orientation of its electronic board.
2. The information is transmitted to the dive computer.
3. The dive computer utilizes a sophisticated mathematical model to calculate the diver's tilt.



A two-step calibration is required both after pairing the trim sensor as well as each time the orientation of the Symbios Tank Pod is changed with respect to the tank. For example, removing the regulator for filling requires calibration unless the regulator is returned to the exact same position.

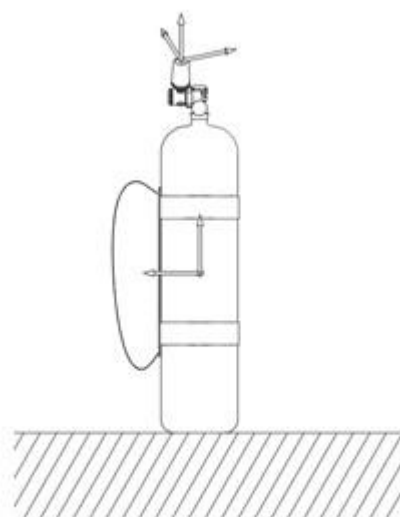
Horizontal Calibration

- _ Pressurize the Symbios Tank Pod and place the diving tank on its back.
- _ Navigate to → menu → SETTINGS → TRIM SENSOR → HORIZONTAL.
- _ Press and hold button A to perform the horizontal calibration.



Vertical Calibration

- _ Orient the tank vertically with the valve up.
- _ Navigate to → menu → SETTINGS → TRIM SENSOR → VERTICAL.
- _ Press and hold button A to perform the vertical calibration.



NOTICE

A calibration is only possible when the trim function is paired, and the Symbios Tank Pod is pressurized.

5 Care and Maintenance

The Symbios Tank Pod is built from high-quality seawater-resistant materials and is designed to withstand diving in harsh conditions. However, you should still protect your Symbios Tank Pod from shock, excessive temperatures, chemicals, and mechanical tampering.

NOTICE

After diving, rinse your Symbios Tank Pod in fresh water to avoid corrosion.

⚠ CAUTION

Protect your Symbios Tank Pod during transportation, from mechanical shocks, and from excessive temperatures.

⚠ CAUTION

Never try to repair your Symbios Tank Pod yourself.

⚠ CAUTION

Inspect the Symbios Tank Pod for mechanical damage and cracks before and after each dive to ensure proper working order.

NOTICE

Failure to observe the above precautions voids the warranty and any product-related liability of Halcyon Dive Systems.

6 Specifications

This device is designed for use with compressed gases that meet the quality standards as specified in the EU standard EN 12021:2014 (requirements for compressed gases for breathing apparatus).

– Maximum operating depth, established through testing: 100 m/328 ft

– Rated working pressure: 300 bar/4351 psi
– One 3-axis accelerometer, with 1° tilt resolution

– CR123 lithium battery

– Housing made from glass-fiber-reinforced polyamide

– Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)

– Storage temperature: -20 °C to 50 °C (-4 °F to 122 °F)

– A 7/16"-20 UNF thread connection to a first-stage scuba pressure regulator (hex base 19 mm/3/4 in)

– Recommended maximum torque: 7 Nm/62 in-lb

– Depth of equipment certification, according to EN 250:2014, is 50 m/164 ft.

7

Troubleshooting

I can't pair my Tank Pod with my Symbios device.

– Make sure your Symbios Tank Pod is pressurized for at least 30 seconds.

– Make sure your Symbios Tank Pod was not previously paired as a different gas or transmitter number or using a different diving mode.

– Make sure your devices are far from any source of strong electromagnetic interference.

– Make sure that your Handset or HUD device is within 40 cm/16 in of the Symbios Tank Pod during pairing.

– Go to your Handset or HUD menu and perform a system reset: **Menu > System > System Info > Reset System.**

Press both buttons of your device at the same time. After your device restarts, follow the steps required to pair it.

– Reset all pairings using the reset pairings function on your handset: **Menu > Settings > Pairing > Reset Pairings.**

– If the problem persists, check the wireless data reception using the wireless page of your device: **Menu > System > WRLSS SCRIN > set to ALL.**

– Navigate to the wireless page on your device and check for a signal from your Symbios Tank Pod (turn off or move away any other transmitting device).

– If you are not receiving any signal from your Symbios Tank Pod, replace the battery. If the problem persists, contact Halcyon at techservices@halcyon.net

8 Warranty

Halcyon Manufacturing, Inc. Limited Warranty

During the warranty period, Halcyon Manufacturing, Inc. or an authorized service center will remedy defects in materials or workmanship free of charge, at its sole discretion, by repairing, replacing, or refunding, subject to the terms and conditions of this limited warranty.

Warranty period:

– The limited warranty period begins on the date of original purchase.

– The warranty period is 2 years for products, unless otherwise specified.
– The warranty period for accessories is 1 year.

The limited warranty does not cover:

- normal wear and tear, such as scratches, abrasions, and alteration of the color.
- defects caused by inappropriate handling
- defects or damage resulting from use contrary to intended and/or recommended use, improper care, negligence, and accidents such as dropping, crushing, and flooding
- printed materials and packaging

The limited warranty is not enforceable if the product or accessory:

- has been opened or tampered with by unauthorized individuals or entities, except when opened solely for battery replacement performed in accordance with this manual
- has been altered using unauthorized spare parts
- has been repaired by an unauthorized service center
- has been exposed to polymer-damaging chemicals, including but not limited to sunscreen, insect repellent, solvents, fuels, oils and other chemicals capable of degrading polymer components

8.1 Limitations of Liability

With the purchase of the Symbios Tank Pod, you hereby agree to the following exclusions and limitations of Halcyon Manufacturing, Inc.'s liability to you.

You agree and understand that scuba diving is a high-risk, possibly life-threatening activity, and the use of the Symbios Tank

Pod is in no way a substitute for proper scuba training and certification.

You understand and agree that scuba diving contains inherent risks and due to the varying nature of such and the diverse potential effect on individuals engaged in scuba diving, Halcyon Manufacturing, Inc. does not warrant or guarantee that your use of this product will prevent decompression sickness, embolism, narcosis, or any other condition or injury you may incur.

You understand and agree that variables may include, but are not limited to, dehydration, obesity, age, prior injuries, or other physical conditions of the diver, or temperature extremes, poor training, poor diving practices, or other acts or omissions that may cause injury or death.

The Symbios Tank Pod was tested according to EN 13319 and was evaluated in numerous test dives. However, there may still be errors in the software or other factors which may cause malfunctions of the Symbios Tank Pod. Therefore, Halcyon Manufacturing, Inc. recommends always carrying and using an independent analog SPG.

You agree that you understand and accept all risks associated with diving, and that Halcyon Manufacturing, Inc., its elected and appointed officials, employees, volunteers or others working on behalf of Halcyon Manufacturing, Inc. are not liable to you or any other person, including your heirs, executors, agents, officers, attorneys, successors, assigns or personal representatives, for any loss, damage, cost, expense, or claim arising out of, caused by, or relating to your personal injury or death while diving, even if your personal injury or death is caused, in whole or in part, and directly or indirectly, by the purchase of the

Symbios Tank Pod or your use thereof, or arising from breach of the warranty, breach of contract, negligence, strict tort, or any other legal or equitable theory, even if Halcyon Manufacturing, Inc. knew, or should have known of the likelihood of such damages, and regardless of whether or not the Symbios Tank Pod functioned properly or was defective in any way. Halcyon Manufacturing, Inc. shall not be liable for delay in rendering service under the limited warranty, or loss of use during the time the product is being repaired.

You hereby irrevocably waive and release Halcyon Manufacturing, Inc., its elected and appointed officials, employees, volunteers or others working on behalf of Halcyon Manufacturing, Inc. from any liability or obligation to you or your heirs, executors or personal representatives for any loss, damage, cost, expense, or claim arising out of, caused by, or relating to your personal injury or death while diving, even if your personal injury or death is caused, in whole or in part and directly or indirectly, by the Symbios Tank Pod or your use of the Symbios Tank Pod, or arising from breach of the warranty, breach of contract, negligence, strict tort, or any other legal or equitable theory, even if Halcyon Manufacturing, Inc. knew, or should have known of the likelihood of such damages, and regardless of whether or not the Symbios Tank Pod functioned properly or was defective in any way.

You have read and you accept the agreement with all limitations and exclusions of Halcyon Manufacturing, Inc.'s liability to you.

9 Notices

9.1 CE Compliance

The Symbios Tank Pod complies with:

- EN 250:2014 – respiratory equipment – open-circuit self-contained compressed air diving apparatus – requirements, testing, and marking
- Regulation (EU) 2014/53, Radio Equipment Directive
- EN 300 330:2017 V2.1.1 (radio spectrum), Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU
- EN 55032:2015 + A1:2020 + A11:2020 (EMC), Electromagnetic compatibility of multimedia equipment

The combination of a Halcyon Handset or HUD and the Halcyon Symbios Tank Pod is considered personal protective equipment under Regulation (EU) 2016/425. Polski Rejestr Statków S.A., al. gen. Józefa Hallera 12680-416 Gdańsk, Poland (Notified Body No. 1463), performed EU type examination (Module B) of the Regulation (EU) 2016/425 personal protective equipment and issued EU type-examination certificate No. CW/PPER/73/08/2025. Under EN 250:2014, the Symbios Tank Pod complies with clause 6.11.1 (pressure indicator) for use with equipment compliant with EN 12021. The air supply for equipment compliant with EN 250:2014 must meet the requirements for breathable air in accordance with EN 12021. The depth of the equipment certification is 50 m/164 ft.

The Halcyon Symbios Handset or HUD, in combination with the Halcyon Symbios Tank Pod, is subject to the conformity assessment procedure, conformity to type based on the quality assurance of the production process, plus supervised product checks at random intervals (Module D), under surveillance of Polski Rejestr Statków S.A., al. gen. Józefa Hallera 12680-416 Gdańsk, Poland (Notified Body No. 1463).

The full text of the EU declaration of conformity is available at <https://halcyon.net/support> under Instructions/Manuals > EU Declaration of Conformity Documents.

9.2 Trademark

Halcyon®, the H logo®, and the Symbios® name and derivations are registered trademarks of Halcyon Manufacturing, Inc. The Halcyon Cinch is protected by U.S. Patents Nos. 8,398,337 and 10,407,142 and a corresponding European patent. Halcyon common law trademarks include, without limitation, Multifunction Compensator™, Cinch™, H-Lok™, X-Connector™, Eclipse™, Explorer™, and Evolve™ wings, BC Storage Pak™, Active Control Ballast™, Diver's Life Raft™, Surf Shuttle™, No-Lock Connector™, Helios™, Proteus™, and Apollo™ lighting systems, Scout Light™, Pathfinder™ reels, Defender™ spools, and the RB80™ rebreather. The technologies, designs, and intellectual property of the Symbios products are owned by Oxygen Scientific GmbH and protected through patents, registered designs, trademarks, and proprietary know-how. The Bail-Out Valve (BOV) is protected by European Patent EP 4 032 797 and U.S. Patent Application US 17/581,530. The Symbios GREENFLASH O₂ sensor is protected by European Patent EP 4 001 900.

The Body Compass and Tilt Sensor technologies are protected by Austrian Patent AT 527773 and European Patent EP 4 578 776.

The Symbios HUD is protected by Registered Community Design No. 008834816-0001.

GREENFLASH and OXYGEN SCIENTIFIC are registered trademarks.

In addition, the mechanical designs, electronic designs, and firmware of the Symbios products are proprietary intellectual property owned by Oxygen Scientific GmbH.

9.3 Copyright

This manual is copyrighted; all rights reserved. It may not, in whole or in part, be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine-readable form without prior consent in writing from Halcyon Manufacturing, Inc.

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9.4 Disclaimer

Halcyon Manufacturing, Inc. reserves the right to make changes or improvements to its products, manuals, and specifications at any time without prior notice.

While every effort has been made to ensure accuracy, Halcyon Manufacturing, Inc. assumes no liability for errors or omissions in this document.

Users are responsible for familiarizing themselves with the latest version of this manual and for following all applicable safety and maintenance instructions.

9.4.1 Translation Note

This manual may be available in multiple languages to comply with regional requirements. In the event of discrepancies between translations, the English version shall prevail.

10 Identification

The Symbios Tank Pod is laser-marked with a label containing information about the manufacturer, the model, CE and FCC symbols, and the serial number indicating the manufacturing year and month. The first two digits of the serial number represent the last two digits of the production year.



10.1 FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B

digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- _ Reorient or relocate the receiving antenna.
- _ Increase the separation between the equipment and the receiver.
- _ Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- _ Consult the dealer or an experienced radio/TV technician for help.

11 Information

Halcyon Manufacturing, Inc.
24587 NW 178th Place
High Springs, FL 32643
USA
info@halcyon.net
Tel: +1.800.HALCYON (425.2966)

European point of contact:
Halcyon Europe Sp. z o.o.
Wodnika 50, Pav. 6, 80-299 Gdańsk
Poland
office.poland@halcyon.net
Tel: +48 570029480

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