

# Operating manual

## SCALEO*heat*



Please read these manual carefully before use. Please do not dispose.

SCALEO

## CAUTION: IMPORTANT SAFETY INSTRUCTIONS - Read all information before operation!

This operating manual covers operating, maintenance and safety instructions. Please read the entire manual carefully before using the heating control and keep it in a safe place for future references at all times.



**ATTENTION!** The product contains magnets. The function of pacemakers can be impaired by these.



**ATTENTION!** In the variant with two EO cords, the polarity at the output is reversed compared to the usual assignment of power sources. (Pin = plus, socket = minus)



**ATTENTION!** can lead to heating failure in the event of a defect

- The instructions in the following operating instructions must be followed. Otherwise it can lead to damage, personal injury or death!
- Disassembling or making changes to the heating control affects the product safety. Making changes to the heating control that are not described in these operating instructions may only be done by qualified specialists.
- Keep the heating control out of the reach of children and animals.
- Disconnect the heating control from the battery immediately if there is smoke or steam.
- Disconnect the heating control for storage or transportation from the battery
- Keep the heating control away from high heat or open flames. Overheating, fire, destruction, electric shock, and injury may result.
- In the event of damage, stop operation as soon as possible. The heating control may only be used again after the damage has been repaired by qualified specialists.

## USAGE, PERFORMANCE CHARACTERISTICS & TECHNICAL DATA

The heating control is designed for operation under water, especially for diving with drysuits. Operation on land is not intended. Flooding of the drysuit can destroy the heating control.

**Compatible with all common heating bushings**

**Dimensions:** Ø 22 mm x 34 mm

**Length of Intermediate-plug version including cable:** 240 mm

**Permissible water temperature:** -4 ° C to 30 ° C

**Permissible water depth:** 200m

**Maximum power:** 160W and 12A

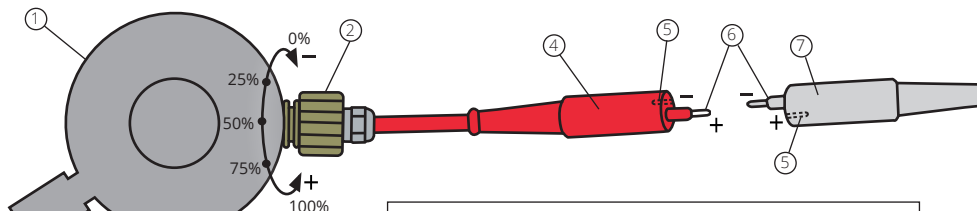
**Input voltage:** 7 - 24 V

**WAM Cord:** with 1,5 mm<sup>2</sup>

**Seawater resistant bronze**

## PRODUCTDETAILS

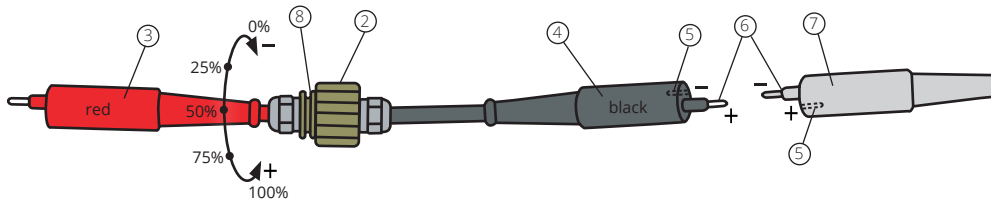
### Integrated version



#### Heating control

- |                                   |                              |
|-----------------------------------|------------------------------|
| 1. Heater bushing                 | 5. EO cord socket            |
| 2. Rotatable ring                 | 6. EO cord pin               |
| 3. EO cord for heating connection | 7. EO cord from battery      |
| 4. EO cord for battery connection | 8. Groove for retaining clip |

### Intermediate-plug version



## COMMISSIONING & USE



**ATTENTION:** Make sure that the polarity of the battery-side EO cord is as follows:

Pin = negative pole, socket = positive pole. Wrong polarity will destroy the heating control!



1. The heating control is connected to the heating device (e.g. heating vest) with the red end (3) and to the battery (7) with the black end (4).
2. Now the temperature can be regulated via the rotating ring (2). The direction of rotation behaves like a bottle thread. i.e. turn in open direction → performance increases, turn in closing direction → performance decreases.
3. Disconnect the heater control from the battery after use.

## ASSEMBLY INSTRUCTIONS (ONLY FOR INTEGRATED VERSION)

If you have any questions about assembly, please contact your dealer or the address below.  
We are not liable for damage caused by improper assembly.

1. Remove the plug on the inside of the heating bushing from the cable.
2. Remove the heating connection cable and cable gland from the bushing as described in the instructions of the bushing manufacturer.
3. Make sure that an O-ring seal is attached to the heating control and that it is greased.
4. Mount the heating control on the bushing. Be careful not to bend the cable as much as possible. Help the cable on the inside by twisting it there carefully.
5. Reassemble the plug on the inner cable end of the bushing.

## CARE & TRANSPORT INSTRUCTIONS

In order for you to enjoy heating control for a long time, you should follow the care instructions below.

- Before each dive, check whether the heater connection is firmly connected to the heater and the battery.
- After each dive, rinse the heating control system thoroughly with clean fresh water and then dry it off. Do not use detergents for this.

To transport the heating control safely, disconnect the heating control from the battery.

Made by:  
**RP-Engineering GmbH**  
Heilbronner Str. 50  
73728 Esslingen am Neckar  
[www.rp-engineering.de](http://www.rp-engineering.de)  
[info@rp-engineering.de](mailto:info@rp-engineering.de)  
Customer Service:  
+49 (0)711 / 35133 874



Dieses Gerät entspricht der Europäischen Richtlinie 2012/19/EU über Elektro- und Elektronik-Altgeräte (WEEE).

This device complies with European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE)



Dieses Gerät entspricht der Europäischen Richtlinie über Elektromagnetische Verträglichkeit (EMV) 2014/30/EU.

This device complies with the European Electromagnetic Compatibility (EMC) Directive 2014/30/EU.