

## MANUAL REGULATOR 12 V GRALmarine

### THIS SET COMPRISES OF:

- regulator 12 V
- integrated cable with GRALmarine plug
- integrated e/o cord

### CONSTRUCTION OF THE REGULATOR:

- switch made of surface anodized aluminum
- body made of delrin
- tested to a depth of 150 meters, 300 meters on request

### TERMS OF REGULATOR USE:

- store in a dry and ventilated location within a temperature range of -20°C to +50°C, keep away from excessive heat and humidity
- polarization:
  - GRALmarine output: „plus” inside the output, „minus” on its housing
  - GRALmarine plug: „plus” on the pin, „minus” on its housing
  - e/o cord leaving the Regulator: „minus” on the pin, „plus” inside the socket
- do not disconnect the GRALmarine plug under water
- do not disconnect the e / o connector under water in a position other than "0"
- the total maximum load of GRALmarine 14,4 V batteries is 160 W
- **it is strictly prohibited:**
  - interfering with the construction of the Regulator
  - causing a short circuit
  - throwing the Regulator
  - placing the regulator into a fire or to store near an excessive heat source
  - connecting connectors other than original GRALmarine connectors on one side and e / o cord on the other
  - maintaining the wrong polarization
  - diving or immersing in water with not secured GRALmarine plug

### PREPARATION FOR WORK:

- check the battery charge level before diving
- set the switch in "0" position
- check that the e / o connector is not dirty or damaged
- e/o cord connect to the heating system e/o cord
- check for dirt or damage to the GRALmarine plug and the battery output
- insert the plug into the terminal (do not screw), push and adjust for the correct placement of the o-rings
- finger-tighten the nut
- turn the Regulator on – position „1”, „2” or „3”
- Regulator positions:
  - „0” – Regulator off
  - „1” – minimum power (40%)
  - „2” – medium power (70%)
  - „3” – maximum power (100%)

### MAINTENANCE AFTER DIVING:

- Rinse the Regulator with fresh water (before disconnecting the lamp head from the container, avoiding plug and output flooding)
- dry the set
- the Regulator and the battery must absolutely be disconnected upon storage and transportation, to prevent accidental switching “on”
- clean regularly
- care for mechanical damage: distortion of the connectors can cause flooding or malfunction of the set

### DEALING WITH USED AND DAMAGED EQUIPMENT:

Lighting gear used by divers can be recycled and freely returned to the dealer or manufacturer. Batteries are the main environmentally hazardous components. The other components such as aluminum and copper are a source of raw materials after recycling. For these reasons, diving equipment should not be disposed with general waste. In accordance with the law pertaining to the disposal of used electrical and electronic equipment:

Art. 73 - Any person disregarding the prohibitions of Art. 35, by not disposing [recyclable] equipment to the proper collecting entity, is subject to a fine.

Art. 74 - Any person disregarding the prohibitions of Art. 36, by disposing [recyclable] equipment with other waste, is subject to a fine.