

Dive Console

MC 2

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Manuale d'istruzioni • User's Guide • Bedienungsanleitung • Manuel d'utilisation
Manual de instrucciones • Manual de instruções • Gebruikershandleiding • Användarinstruktioner
Οδηγίες χρήσης • Käyttäjän Opas • Instrukcja użytkowania • Felhasználói útmutató

mares[®]
just
add
water

MC2 CONSOLE

WARNING

Carefully read this instruction manual before use, and keep it for future reference.

INTRODUCTION

Congratulations for having chosen the MC2 console. Your console has been constructed using advanced manufacturing methods and materials, and is the result of extensive and ongoing development and testing. Correctly carry out the instructions and maintenance procedures described in this manual to ensure safe and enjoyable diving.

MC2 CONSOLE COMPONENTS

- ▶ **DIVE COMPUTER**
(SEE M2 MANUAL)
- ▶ **SUBMERSIBLE PRESSURE GAUGE + HOSE**
(MARKING CE 0426)
- ▶ **COMPASS (OPTIONAL)**

TECHNICAL CHARACTERISTICS OF THE INSTRUMENTS

SUBMERSIBLE PRESSURE GAUGE WITH HOSE

The instruments described in this manual have been tested and CE certified by Registered Test Center n°0426 - ITALCERT, V.le Sarca, 336 -20126 Milan.

MODEL

Submersible pressure gauge with 350 bar / 5000 PSI full scale.

DESCRIPTION

Submersible pressure gauge, Ø50, with silver soldered Bourdon spring pressure sensing system; single-piece pressed brass case; fluorescent dial with low-air marking; splinter-proof glass with gasket; standard 7/16" UNF threaded fitting compliant with the ISO 263 standard.

CHARACTERISTICS

The submersible pressure gauge is a Category III device as defined under European Directive 89/686/CEE and complies with the specifications set out in the EN 250: 2000 harmonized European Standard.

USE

The submersible pressure gauge is a safety equipment for the monitoring of residual air pressure in the tank, designed to be used as part of a SCUBA set (open-circuit, self-contained underwater breathing apparatus).

The pressure gauge must be assembled on the regulator first stage by means of the high pressure hose connected to the gauge.

The pressure gauge can be used at ambient temperatures below 10°C.

ASSEMBLY

- 1) Locate the high pressure ports on the regulator first stage (refer to the instruction manual of the regulator; the high pressure ports on the first stage may be marked with the letters "HP" or with the maximum pressure rating) and, following the instructions, remove the plug from the chosen port.
- 2) Remove the thread protection cap before connecting the hose to the regulator first stage.
- 3) Screw the hose fully into the high pressure port of the regulator first stage. Lock down firmly but carefully, using a 15-mm hex wrench.

The pressure gauge is now ready for use.

ATTENTION

Before use, always make sure that the pressure gauge is compatible with the maximum working pressure of the regulator on which the instrument will be assembled. The working pressure of the pressure gauge is indicated on the back of the case.

After assembling the SCUBA set, slowly open the tank control valve to avoid the "water hammer" effect resulting from the high pressure entering the hose. Never look directly at the instrument dial when opening the tank valve.

After opening the tank valve, make sure there are no leaks in the system by checking that the gauge pointer indicates a fixed pressure reading that doesn't tend to decrease. If a drop in pressure is detected, do not dive and double check the entire system.

During the dive, remember to check the residual air pressure frequently.

The pressure gauge dial has a low-air marking (area between 50 and 0 bar, colored red) which warns the diver when the air supply in the tank is running low. If the gauge pointer reaches the low-air sector during the dive, it is necessary to start the ascent.

The pressure gauge is equipped with a hose of sufficient length to avoid hindering the diver during its use. It is in any case recommended to secure the instrument using the special fasteners provided on the harness or BC.

Protect the instrument from knocks. The pressure gauge must only be used with CE marked SCUBA components.

RESTRICTIONS ON USE

The instrument has been tested and certified to guarantee a medium operating safety level at a maximum depth of 50 metres, in compliance with Directive 89/686/CEE of 21 December 1989. The tests were carried out in accordance with the EN 250: 2000 standard.

WARNING

The Nitrox pressure gauge has been designed for use with oxygen-rich mixtures having a maximum O₂ content of 50%. If the pressure gauge is used with ordinary compressed air, before using it with oxygen rich mixtures again it must be thoroughly cleaned to eliminate any contaminants (hydrocarbons or other impurities) which may spark a combustion. It is also necessary to replace the high pressure hose with a new one, or in any case with one that has only been used with Nitrox mixes.

WARNING

Mares Nitrox pressure gauges are considered to conform to directive 89/686/EEC when used with breathable air according to EN 12021/rev.1997.

The instructions for use provided refer to use of the pressure gauge with breathable air conforming to EN 12021/rev.1997 (oxygen content of 21±2%).

Because to date there are no standards defining adequate and meaningful tests of conformance to the essential safety requirements of Directive 89/686/EEC, the Mares Nitrox pressure gauge is not EC certified for use with oxygen rich mixtures (O₂ >22%) under directive 89/686/EEC.

The pressure gauge must not be used in ambient conditions that are unsuitable for its functioning (e.g. in conditions of poor or zero visibility, where it is impossible to see the dial).

WARNING

The use of the instrument described in this manual is subject to mandatory training.

The user must have received adequate prior training on the use of SCUBA diving equipment.

MARKING

The instrument markings are located on the back of the case, and consist of the following:

- ▶ Manufacturer's logo.
- ▶ Model name.
- ▶ Working pressure rating: 350 bar / 5000 PSI.
- ▶ Reference standard: EN 250: 2000.
- ▶ Reference marking: CE 0426.

The conformity marking indicates compliance with the essential health and safety requirements as per annex II D. and 89/686/CEE. The number next to the CE mark identifies Registered Test Center n° 0426 - ITALCERT V.le Sarca, 336 - 20126 Milano - Italia, authorized to test and certify the finished product under art. 11 AD. and 89/686/CEE

NOTE: the marking is not immediately visible because the pressure gauge has a protective outer covering. To see the markings it is necessary to remove the protective covering.

CHARACTERISTICS

Accuracy: the pressure measurement accuracy is: from 0 to 150 bar:
± 3 bar; from 150 bar to full scale: ± 6 bar.
Connecting port airflow: <100 liters/min. at a pressure of 100 bar.

STORAGE

After use, it is recommended to rinse the instrument in fresh water while it is still assembled on the regulator, to prevent water from penetrating inside the hose.

Allow to dry in air, and then put the instrument away, taking care to replace the special thread protection cap on the hose.

The instrument should be stored in a dry place, protected from heat sources and direct light, without

bending the hose too tightly (minimum bend radius 20 cm).

MAINTENANCE

The pressure gauge does not require any particular maintenance. It is recommended to periodically check the O-Ring on the hose coupling which connects to the regulator, and replace it if necessary.

WARNING

Lubricate the seals of the Nitrox submersible pressure gauge exclusively with oxygen-compatible grease. The use of other lubricants in the presence of oxygen-rich mixtures may result in an explosion hazard.

WARNING

In the case of use with Nitrox mixes it is recommended to replace the HP hose every two years.

Any maintenance actions or repairs must obligatorily be carried out by Mares or its authorized personnel. Do not under any circumstances replace the hose fitted on the pressure gauge with one of a different type (consult your dealer or Mares for information about the type of hose to be used).

LIABILITY

Mares declines all liability for damages resulting from improper use/ maintenance/ storage or from the failure to follow these instructions. The manufacturer declines all liability if the instrument is used with SCUBA components that are not CE marked.

COMPASS

TECHNICAL CHARACTERISTICS

- ▶ Front and side readout.
- ▶ Oil bath system with temperature compensation.
- ▶ Maximum working tilt angle of 20°.
- ▶ Dual magnet for faster response.

DIAL

- ▶ Color: Fluorescent light yellow.
- ▶ Diameter: 50 mm.
- ▶ Scale: Bezel ring with numbering at 10° intervals.

CASE MATERIALS

- ▶ High impact technopolymers.
- ▶ Scratch resistant polycarbonate.

MAINTENANCE

- ▶ Avoid exposing the instrument to sunlight or sources of heat.
- ▶ Treat the compass like a precision instrument, and protect it from knocks.
- ▶ Rinse in fresh water after every dive.



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