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instruments

Datasheet

OMEGA Objective Mesh Gauge

The OMEGA mesh gauge ® is an electrically and mechanically driven instrument that measures the exact dimensions of the mesh openings of fishing nets. Observator (the Netherlands) has developed this instrument in cooperation with Marelec (Belgium).

Together with fishery inspection services and research institutes from Belgium, France, Germany, Italy, the Netherlands, Spain and the United Kingdom, a unique instrument has been developed. It measures the meshes of the nets in an absolutely objective manner.

The OMEGA Mesh Gauge ® is the only instrument that fully complies with Regulation (EC) No 517/2008, published on June 11, 2008. This regulation describes the use of the instrument, the regulations and procedures, to provide objective and legally substantiated measurements.

Features

- All types of netting
- Precision: 1 mm
- Direct reading of measuring force applied
- Direct reading of mesh opening
- Minimal human influence
- Simple to operate
- Robust and durable
- Easy maintenance

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General

The OMEGA mesh gauge is a handheld electronic measuring instrument with data storage facilities for the measurement of the mesh opening of fishing nets, in such a way that its measuring results can be accepted by official authorities.

The OMEGA mesh gauge is an electric driven instrument that applies a controlled force on the mesh to be measured. Once this force is achieved, the exact opening of the gauge is measured automatically. Mesh opening and measuring force are simultaneously shown on the digital display. The operator now has the ability of accepting or refusing the measurement. All data are stored in the onboard memory. When a series of measurements has been finalised, the average mesh opening and number of measurements made will be displayed. All measurement data can be transferred via an infrared transmitter to external devices such as a standard computer, or an optional printer.

The mesh gauge is battery operated: its autonomy will be lengthened by the ability of switching the battery-pack. One battery pack will be enough for a whole day of measuring.

The mesh gauge is water-resistant, accidental flow of water will not damage the instrument. Any metal involved is stainless steel, resistant to salt water.

ΩMEGA
Objective Mesh Gauge

Specification

- According to EG Regulations nr 517/2008, published June 11, 2008
- Temperature range -10° to 40°C (operating)
- Length measurement range: 10-300 mm
- Accuracy: +/- 1 mm
- Display resolution: +/- 1 mm (internal resolution 0.2 mm)
- Force measurement range: 0…150 N
- Accuracy: 1 N
- Data storage: memory of 1000 measurements
- Download via an infrared transmitter
- General execution heavy-duty design for use offshore in a harsh and wet environment
- Made of non-corrosive materials: stainless steel and technical plastics

Calibration

Since the instrument is to be used as an objective device, it will be type approved. The initial calibration is done at the factory. For official use, the instrument will have to be re-calibrated once a year by an authorised technician. Check cycles enable witnessed checking of the instrument calibration before use.

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Solutions beyond expectations

Since 1924 Observator has evolved to be a trend-setting developer and supplier in a wide variety of industries. From instruments for meteorological and hydrological solutions, air and climate technology, to high precision mechanical production, window wipers and sunscreens for shipping and inland applications.

Originating from the Netherlands, Observator has grown into an internationally oriented company with a worldwide distribution network and offices in Australia, Germany, the Netherlands, Singapore and the United Kingdom.

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