



## OMEGA Objective Mesh Gauge

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. With a close partnership with Marelec (Belgium) Observator developed the OMEGA Mesh gauge within a European project, coordinated by the Sea Fisheries department of Belgium. The project started in 2002 and after several studies, laboratory and field test the mesh gauge is now available for those who intend to measure on fishing net with the highest accuracy and the possibility of storing the information.

### 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



## 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 on-board memory. When a series of measurements has been finalized, the mean 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, resistant to salt water.



Rietdekkerstraat 6  
2984 BM Ridderkerk

P.O. Box 60  
2980 AB Ridderkerk  
The Netherlands

Phone +31 (0)180 463 411  
Telefax +31 (0)180 463 530  
E-mail [info@observator.com](mailto:info@observator.com)  
[www.observator.com](http://www.observator.com)

## Specification

- 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 authorized technician. Check cycles enable witnessed checking of the instrument calibration before use.

