Vision on quality
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TQC HULL ROUGHNESS GAUGE
DC9000

DATASHEET

PRODUCT DESCRIPTION

Controlling the roughness of a ship's hull plays an important role in the operating costs of a vessel. The roughness of a ship's hull increases mainly due to corrosion, pitting, plate undulation, mechanical damage, dry spray and above all bio fouling. Proper maintenance and the correct application of high-end anti-fouling coatings reduce the hull roughness which will lead to significant savings on fuel consumption and CO2 emissions. The hull roughness is measured during in-docking and out-docking. The Hull Roughness Gauge (HRG) measures the AHR value (Average Hull Roughness) of sea going vessels. AHR is the 'mean' of all the vessel's hull roughness readings and is the measure against which ship's performance is correlated.

BUSINESS

Ship operators, ship builders, ship repairers and coating manufacturers.

FEATURES

Easy to operate 4-way directional push button, graphical representations, storage of data in multiple batches and survey reports in Microsoft Excel®.

SCOPE OF SUPPLY

- TQC Hull Roughness Control unit with neck-strap
- TQC Hull Roughness Sensor
- TQC Hull Roughness Sensor Cable
- DC9015 Calibration plate
- USB thumb drive with software
- USB connection cable for PC
- 4 x AA batteries included

ART NO.

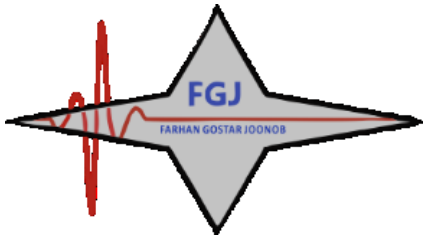
DC9000 TQC Hull Roughness Gauge

SPECIFICATIONS

Dimensions and Weight

- Sensor Depth: 205 mm
- Sensor Width: 80 mm
- Sensor Height: 40 mm
- Sensor weight: approx. 630 g

- Control unit Depth: 200 mm
- Control unit Width: 115 mm
- Control unit Height: 40 mm
- Control unit weight: approx. 350 g



Technical data

- Accuracy: +/- 5 microns or <2%, whichever is greater
- Memory: 4 complete surveys done both in- and out-docking, totalling over 10.000 readings
- Location storage: Point and click in the displayed graphical representation of the ship's hull
- Units: Microns
- Speed: 50 mm/s, with speed indication LED in the Sensor unit
- Interface: USB serial to PC connection
- Power supply: 4 AA type Alkaline Cells, available worldwide

USE

The DC9000 Hull Roughness Gauge has a menu-driven interface. Check the manual for full details.

SPECIAL CARE

- Though robust in design, this instrument is precision-machined. Never drop it or knock it over
- Always clean the instrument after use.
- Clean the instrument using a soft dry cloth. Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- Do not use compressed air to clean the instrument.
- Always keep the instrument in its case when not in use.
- We recommend annual calibration

SAFETY PRECAUTIONS

- Not suitable to be put in the sun or in the high light
- Avoid using it in over-high or over-low temperature environment
- Avoid humidity
- Always make sure the instrument's power is turned off while adjusting any electric component

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DISCLAIMER