



## TQC HULL ROUGHNESS GAUGE

DC9000

DATA SHEET

### 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

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

### SPECIAL CARE

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- 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

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- 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

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The right of technical modifications is reserved.

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.