



TQC Sheen Hull Roughness Gauge

DC9000

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 before and after treatment in a dry dock.

The Hull Roughness Gauge (HRG) calculates the AHR value (Average Hull Roughness) for the whole vessel. AHR is the 'mean' of all the vessel's hull roughness readings and is the measure against which ship's performance is correlated.

Potential users

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



Catalog Number Article Description

DC9000	TQC Sheen Hull Roughness Gauge
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Technical Specification:

Sensor

Depth 205 mm

Width 80 mm

Height 40 mm

Weight Approx. 630 g

Control unit

Depth 200 mm

Width 115 mm

Height 40 mm

Weight Approx. 350 g

Technical data:

Accuracy +/- 5 microns or 2%, whichever is greater

Memory 4 complete surveys can be done with over 10.000 readings

Measurement range 0 - 3.000 µm

Location storage Point and click in the displayed graphical representation of the ship's hull to store measurements

Units microns

indication Speed 50 mm/s, with speed LED in the sensor unit

Interface USB to PC Connection

Power supply 4x AA type Alkaline Cells



The control unit of the Hull Roughness Gauge can be operated with just one hand. With its simple 5 button design, intuitive menu, and large illuminated display, the control unit allows for easy operation. The neck strap also allows users to keep their hands free when required.

The sensor is compact and equipped with three LEDs to indicate the status of the instrument and the speeds it is moved. Users can easily operate the instrument intuitively without the need to stop and observe the control units. Additionally, audible feedback is also available.



DC9025 Protective Pouch

Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.



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