

# Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No.	59 587 - 08 HH
Company	DEIF A/S Frisenborgvej 33 7800 Skive, DENMARK
Product Description	Ultrasonic wind measuring system
Type	WSS
Environmental Category	G, Exposed
Technical Data / Range of Application	Dimension: 12 x 12 x 19 cm Wind speed measuring range: 0 - 99.9 kts Resolution: 0.1 kts Wind direction resolution: 1° Wind direction accuracy: $\pm 3^\circ$ in relation to the wind direction Communication port: RS485 NMEA 0183 protocol Power Supply : 12, 24 V DC $\pm 20\%$ Material: Wind sensor housing: Polycarbonate +10% glass fibre Mounting tap: Corrosion-resistant stainless steel Degree of Protection IP 66
Test Standard	Guidelines for the Performance of Type Approvals Part 2, Edition 2003 IEC 60945 Fourth Edition (2002)
Documents	Test reports : IPA No. 0230-03, dated 2008-08-05 DANAK -1910232, dated 2008-07-15
Remarks	Vibration tested acc. curve 4 (Vibration strain on masts) of GL Guidelines

Valid until 2018-10-01

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File No. I.F.06

Hamburg, 2013-10-02

**Germanischer Lloyd**

Type Approval Symbol



Marco Rinkel

Uwe Supke

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".