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Type Approval Certificate Extension

This is to certify that Certificate No. 09/70007 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Green Instruments A/S
PLACE OF PRODUCTION	Erhvervsparken 29 DK-9700 Brønderslev Denmark
DESCRIPTION	G36/G36p Oxygen analyzer intended for monitoring oxygen content in gas mixtures with a ZrO ₂ zirconium type sensor. The analyzer is designed for monitoring O ₂ -content content in stack gas or in the nitrogen or flue gas based inert gas, and continuous monitoring of oxygen level in the atmosphere in engine room compartments or room for inert gas system or accommodation area. Installation is for non-hazardous areas. Sample gases shall not have high concentrations of Methane.
TYPE	G36 Stand-alone type G36p Panel mounted type
APPLICATION	Marine, Offshore and Industrial applications suitable for use in environmental categories ENV1, ENV2 and ENV3* as defined in LR Test Specification no.1: 2002, in "Bridge & Deck Zone" where the test specification is applicable for the services. * for G36p model only
Certificate No.	09/70007(E1)
Issue Date	30 April 2015
Expiry Date	29 April 2020
Sheet	1 of 3

*Lloyd's Register EMEA
Strandvejen 104A, DK-2900 - Hellerup*


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Copenhagen Tech. Support Office

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SPECIFIED STANDARDS	Manufacturer's Specification EN 50104:2010 IEC60529 IEC60068-2-27
RATINGS	Power supply: 100-230VAC (50/60Hz) or 24VDC
ACCURACY	Measuring range: 0.0-21.0% O ₂ Linearity/ Accuracy: better than 0.5% Repeatability: better than 0.05% of full range (0-21% O ₂) Response time: 20% of total measured value@<10sec 98% of total measured value@<45sec
OTHER CONDITIONS	The Type Approval test is a hardware tests. The software has been tested to the extent required for the function tests. Software revision 2
ADDITIONAL TESTS	<u>G36 Stand-alone</u> Dry Heat Test to 55°C, to LR Test Spec No1 "Shock Test" to IEC 60068-2-27 "Vibration Test to IEC60068-2-6 (5-200Hz; displacement 2mm peak at 5-13,2 Hz) <u>G36p Panel mounted</u> Ingress protection to IP 55 from front side.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No.TA09/70007 (E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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All other details remain as the previous Certificate No. 09/70007 to which this extension should be attached.

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