

Type Approval Certificate Extension

This is to certify that Certificate No. 10/20008 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER

Elektronik-Systeme Lauer GmbH & Co.KG

PLACE OF

PRODUCTION

Kelterstrasse 59

72669 Unterensingen

Germany

DESCRIPTION

Monitors and Panel PC for bridge and automation application

TYPE

Monitor: MTe 0 2 3 Nautic 4

Panel PC: EPC @ @ C2D Nautic @

① - Display Type: T=Touch, otherwise=Glasfront ② - Display Size: 150=15", 170=17", 190=19"

①+②= box, for CPU unit without display

③ - Communication Type: E=Ethernet, otherwise=USB

@ - Power Supply Type: AC=230V, DC=24V

Panel PC comprises:

Storage Medium=CF-Card or HDDUser Memory= 1GB, 2GB or 4GB RAM

- CPU Type= Intel® Core™ 2Duo CPU T7500 @ 2.20GHz

- System Software=Windows XP Professional

APPLICATION

Marine, offshore and industrial applications for use in environmental categories ENV1 and ENV2 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - 2002.

Certificate No.

10/20008 (E1)

Issue Date

21 September 2010

Expiry Date

08 March 2015

Sheet

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Ronny Lehmann Hamburg Design Support Centre Lloyd's Register EMEA

Lloyd's Register EMEA 71 Fenchurch Street, London EC3M 4BS

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ADDITIONAL TESTS

- Low Temperature test (-15°C/16hrs)

- Dry Heat test (+55°C/16hrs)

- Sound Power Test (ISO 9614-2):

Alarm Measurement = 80dB

Noise Measurement = 51dB (for Panel PCs only)

- Compass Safe Distance (EN60945, Section 11.2)

DESIGN CODE

Manufactures Specification

OTHER CONDITIONS

Final arrangements of the system have to be in compliance with Lloyd's

Register Rules and Regulations.

Type Approval of Products according to Test Specification No. 1 is essentially Type Approval of hardware. Examination of software aspect is restricted to functional operation as demonstrated in the Performance

Test.

"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 Design Appraisal Document No. ETS 23718-10 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 10/20008 to which this extension should be attached.

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