

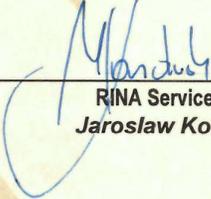


TYPE APPROVAL CERTIFICATE
No. **ELE113020XP**

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Electro-Pneumatic level measurement system
<i>Type</i>	LEVELMASTER H8
<i>Applicant</i>	KOCKUM SONICS AB P O BOX 1035, INDUSTRIGATAN 39 SE-212 10 Malmoe SWEDEN
<i>Manufacturer</i>	KOCKUM SONICS AB
<i>Place of manufacture</i>	P O BOX 1035, INDUSTRIGATAN 39 SE-212 10 Malmoe SWEDEN
<i>Reference standards</i>	Rules for the classification of ships.- Part C - Machinery, systems and fire protection. - Ch.3, Sect. 6, Table 1.

Issued in **Gdańsk** on **December 21, 2020**. *This Certificate is valid until* **December 20, 2025**



RINA Services S.p.A.
Jaroslaw Kondracki

This certificate consists of this page and 1 enclosure



TYPE APPROVAL CERTIFICATE

No. ELE113020XP

Enclosure - Page 1 of 1
LEVELMASTER H8

Levelmaster H8 level gauging:

Description	Maker	Model
Sensor and control unit	Kockum Sonics	27000004
Power supply unit	Kockum Sonics	2063-3040
Solenoid Valve	Camozzi	20882465
Valve Control Board	Kockum Sonics	2063-3041

Display units:

Description	Maker	Model
Level monitoring	Beijer Electronics	X2 pro display
Draft monitoring	Beijer Electronics	X2 pro display

Kockum Sonics documents:

Data sheet n° KSM657_2028,

User's Guide for LEVELMASTER H8

DNV TAC n° TAA00000N8 issue on 12/09/2016 for X2 HMI Panel family.

filed by RINA with n° PLEL/619-620

Test Reports:

DELTA Lab. Report n° DANAK-198427 (13/07/2006)

FORCE Technology test report n° 119-32982-1 (25/11/2019)

filed by RINA with n° PLEL/617-618

General remarks:

Before of each delivery on board, the block diagram / description of the actual system configuration is to be sent for examination and approval ; please refer to this type approval certificate.

The system failure shall cause an alarm in the manned stations.

The LEVELMASTER H8 meets the relevant requirements of the standard IACS E10: Rev. 7, Oct 2018

The certificate annuls and replaces the previous on n° ELE153812XG002.

Gdańsk December 21, 2020



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