



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR LIQUID LEVEL GAUGE / HIGH LEVEL ALARM

Certificate No. TA21160M

This is to certify that the undernoted product has been approved in accordance with the requirements specified in the Chapter 4, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society's Rules.

This certificate is issued to

Manufacturer:	Kockum Sonics AB
Place of Manufacturing:	Industrigatan 39, P.O Box 1035, SE- 212 10 Malmö, Sweden
Product description:	Electro Pneumatic Level Gauge
Model:	LEVELMASTER H8
Approval No.:	06LG003
Valid until:	7 September 2025

This certificate is subject to the conditions specified in the attached sheets.

Issued at Tokyo on 8 September 2020.



T. Shimada
General Manager
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

Specification & documents:

1. Ratings: Power supply: AC 115/230 V 50/60 Hz, DC 24 V
 Air Supply: 5-8 bar

2. Components and reference drawings:

Components	Documents
LEVELMASTER H8 cabinet	KSM 657_2028 LEVELMASTER H8 Manual KSM 738_1726 LEVELMASTER H8-C
Sensor and Control Unit	
Digital Flow Controller	
Valve Block and Internal Piping	
Main Pressure Regulator with Filter and Auto Drain	

3. Documentation and Test Reports:

QR 2.2.5 Levelmaster Development and Improvements

QB 2.2E Development Control

Report 120-24658-1 by DANAK dated 26 May 2020

Software Quality Plan

- To be continued -

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS (IACS UR E10 Rev.7 basis)		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test		X
Dry heat test		X
Damp heat test		X
Vibration test		X
Inclination test		--
Cold test		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test (Frequency: 80 MHz – 6GHz)		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test (Frequency: 0.15GHz – 6GHz)		X
Conducted emission test		X
Mechanical test for float		--
Flame retardant test		--

2. Approval condition:

- (1) The product is to be applied for F.O. tank, L.O. tank, Water tank and etc. (except for Cargo tank).
- (2) The product is not allowed to be installed on open decks.

- The End -