



Certificate No. 03-002166/031869

TYPE APPROVAL CERTIFICATE

This is to certify that this product complies with the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products.

TYPE AND DESCRIPTION OF PRODUCT:

ELECTRONIC WHISTLE / AIR HORN ITES / ITAS

MANUFACTURER:

INELTEH d.o.o.

Ljubljanska cesta 7
51000 Rijeka
CROATIA

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

CRS RULES FOR THE CLASSIFICATION OF SHIPS
COLREG 1972 as amended, Annex III/1 (Performance)

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

APPROVAL IS VALID UNTIL: 2029-01-03

Place and date: Split, 2025-10-17

Seal _____

Marinko Popović, dipl.ing.

NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

DETAILED PRODUCT DESCRIPTION:

Programmable electronic multitone siren ITES consists of the electronic unit ITES and one or more loudspeakers of different sound pressure. It is designed for marine application in a few different versions:

| Type | Electronic unit | Loudspeaker | Application |
|----------------|-----------------|--------------|--|
| ITES-105-... | ITES-105 | HP-6C | signalling equipment |
| ITES-110-... | ITES-110 | HP-10 | |
| ITES-115-... | ITES-115 | HP-15 | |
| ITES-120-... | ITES-120 | HP-30 | |
| ITES-115Ex-... | ITES-115Ex | DSP-25EExmN | |
| ITES-126-... | ITES-126 | DS-100/DH-30 | |
| ITES-MS-120 | ITES-MS-120-24 | ITHP-30 | ship's navigational whistle (vessels of less than 20 m in length) |
| ITES-MS-130 | ITES-MS-130-24 | IT-130 | ship's navigational whistle (vessels of 20 m but less than 75 m) |
| ITAS | Compressed air | Air horn | ship's navigational whistle (vessels of 20 m but less than 75 m) |

Electronic sirens ITES might be produced in several versions – one or more inputs with one or more tones and consequently with different type signs as follow: ITES-X/M/MS/MSL/MSP/MSPL-X-... Air horn ITAS is consisting of the air compressor, air receiver and air horn which is activated by means of push button and electromagnetic valve. It is designed for a ship's machinery and deck application including ship's whistle use.

APPLICATION / LIMITATIONS:

CRS Rules for the classification of ships.

Electronic siren (whistle) ITES-MS-120 may be used as the main ship's whistle for ships up to 20 m in length.

Electronic siren (whistle) ITES-MS-130 may be used as the main ship's whistle for ships of 20 m up to less than 75 m in length.

Air horn ITAS may be used as the main ship's whistle for ships of 20 m up to less than 75 m in length.

TYPE APPROVAL DOCUMENTATION:

Documentation:

- Type approval documentation for INELTEH sirens, type ITES and ITAS, approved by CRS on 2017-01-04
- SHIP'S WHISTLE / ELECTRONIC SIREN type ITES-MS-130-24, dwg. No. 01-10-208, rev.2

Test Reports:

- ITES-MS-130, sound signal intensity - KONCAR INSTITUTE No. 21525-B-2024-054
- ITES-MS-130, environmental testing - KONCAR INSTITUTE No. 51-17124
- ITES-MS-130, EMC test - KONCAR INSTITUTE No. 21583EMC24053
- ITES-MS-120, sound signal intensity - KONCAR INSTITUTE No. 21520-B-2015-198-2
- ITAS, sound signal intensity - KONCAR INSTITUTE No. 21520-B-2015-198-1
- Vibration test - KONCAR INSTITUTE No. 21520-D-158/09
- ITES-MS-120, EMC test - KONCAR INSTITUTE No. 21583EMC16031

MARKING OF PRODUCT:

The Manufacturer, type designation of the product and serial number.

CONDITIONS FOR CERTIFICATION:

Electronic whistle system ITES-115Ex... shall be delivered with appropriate Ex certificate which include all parameters and limitations.