**KR HELLAS LTD.**
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GR-16671, Athens, Greece

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**Certificate No:**
**MED-MB-1281-22**
**MED Item No. : MED/1.10**



# EC TYPE-EXAMINATION CERTIFICATE

## as per Module B
## of European Council Directive 2014/90/EU on Marine Equipment (MED)

***THIS IS TO CERTIFY*** that KR Hellas Ltd., designated by the Hellenic Republic as Notified Body according to Council Directive 2014/90/EU on Marine Equipment, did undertake the EC Type Examination procedures for the equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU:

| | | | |
|---|---|---|---|
| **Manufacturer** | **Name** | : | **LALIZAS HELLAS S.A.** |
| | **Address** | : | **3, Gounari, 18531 Piraeus, Greece** |
| **Authorised Representative** | **Name** | : | **-** |
| | **Address** | : | **-** |
| **Regulation Item (MED item designation)** and (if applicable) | | : | **Buoyant smoke signals (pyrotechnics)** |
| **USCG Approval Category** | | : | **160.122/EC2198** |
| **Product Types** | | : | **LALIZAS ASTROS orange buoyant smoke signal** |
| **Specified Standards** *Commission Implementing Regulation [(EU) 2023/1667] - Row 2 of 2* | | : | **SOLAS 74 Reg. III/4, III/34, X/3, IMO Res. MSC.48(66) - (LSA Code) I & III, ISO 15736:2006, IMO MSC.1/Circ. 1629, IMO Res. MSC.81(70) as amended.** |

| | | |
|---|---|---|
| **Date of issue** | : | **13th December 2022** |
| **Date of reissue** | : | **1st December 2023** |
| **Expiration Date** | : | **12th December 2027** |

Issued at Athens, under the authority of the Hellenic Republic by **KR Hellas Ltd.**

(KRH Endorse)

*Dr. Park Joo-sung*
**CEO of KR Hellas Ltd.**

Notified Body No.2198

ESYD Product Certification No. of Certificate 582

# Attachment to EC Type Examination Certificate (1/2)

## Type examination documentation:

1. EU Type Examination Certificate MED-MB-1281-22 is based on approved Technical file of Pyrotechnourgiki S.M. LTD. and the Certificate MED-MB-1229-22 issued on 1st December 2023 for MED item 1.10 Buoyant smoke signals (pyrotechnics) and for the product type Nereus MK1.

## Test reports:

| Report No. | Title of Report | Inspection & Test Institutes | Date |
|---|---|---|---|
| KRH-MED-0065-2023 | Report of conformity assessment for Module B | KR HELLAS LTD. | 14/11/2023 |
| KRH-MED-0331-2022 | Report of conformity assessment for Module B | KR HELLAS LTD. | 30/11/2022 |
| KRH-MED-0338-2020 | Report of conformity assessment for Module B | KR HELLAS LTD. | 26/09/2022 |

## Product description:

| | |
|---|---|
| Length of Casing | 104 mm ± 2 mm |
| Diameter of Casing | 83 mm ± 1 mm |
| Design Weight | 375 ± 5 gr |
| Weight of smoke-generating material | 250 ± 5 gr |
| Casing Material | Tin Coated Steel |
| Top Cover | PVC |
| Method of Ignition | Pull-of pin-Trigger mechanism - Friction cup |
| Acceptable life of the item | 3 yrs |

## Application/Limitations of Use:

1. This certificate is based on the agreement between Lalizas Hellas S.A. and the original equipment manufacturer Pyrotechnourgiki LTD dated 21st November 2022.
2. This certificate will not be valid if the original equipment manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the notified body named on this certificate.
3. Instructions and manual for use, inspection and onboard maintenance shall be provided onboard and available in the ship's official language.
4. The date of expiry shall be marked on the flares and the equipment shall be replaced prior to the date of expiry.

(KRH Endorse)

## Attachment to EC Type Examination Certificate (2/2)

**Marking of product:**

1. Mark of Conformity

   The manufacturer is allowed to affix the Mark of Conformity ⊙ according to Chapter 2, Article 9, 10 of the Council Directive 2014/90/EU (MED) on marine equipment and issue a Declaration of Conformity, only when one of the production modules D or E or F of Annex II has been completed and will appear on the production module certificate as allowed by this directive.
2. This equipment is covered by the scope of the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004 and amended by Decision No.1/2018 dated February 18th, 2019 according to U.S. Coast Guard approval category (USCG Approval Category). A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F) as allowed by this Directive (MED).

**Conditions of the validity:**

1. The products are to be manufactured in accordance with the approved production quality assurance system (Module D) or approved product assurance system (Module E), or are to be subjected to product verification (Module F) of the Council Directive 2014/90/EU (MED) on Marine Equipment.
2. If the Directive or the applied Standard(s) is amended, the product is to be re-approved in accordance with the amended requirements prior to it being supplied to vessels to which the amended Directive or Standard(s) apply. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this certificate invalid.
3. The Manufacturer must inform the "Notified Body" of all modifications which may affect compliance with the requirements.
4. The wheel mark of conformity and the U.S. Coast Guard approval number (when applicable) shall be affixed to the product and a Declaration of Conformity shall be issued by the manufacturer only when the production/product assessment module has been completed and will appear on the production module certificate (module D, E or F) as allowed by the MED.

**Place of production:**

Eleonas Thibes, Biotia, Greece

**Remarks:**

- Reissued on 1st December 2023 to change the name of the original manufacturer.

*End of Certificate*

EC-NB N° 2198 KRH (KRH Endorse)