

EU-Type Examination Certificate

2051-RED-190602

In compliance with Directive (EU) No 2014/53 of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment (RED), this certificate applies to the product(s)

S-Band radar system for surface maritime navigation

Model: LD-2330SRK/12/AC-DW

Placed on the market under the name or trade mark of

GEM Elettronica S.r.l.

Via Amerigo Vespucci 9

63074 - San Benedetto del Tronto (AP), Italy

This certificate attests that all provisions concerning the assessment and verification of performance described in the standard(s)

Art 3.1a: EN 60950-1:2006, A11:2009, A1:2010, A12:2011, A2:2013
Art.3.1a ("Health") - Assessment on the human exposure to
electromagnetic fields
Art 3.1b: EN 60945:2002 (§ 9 , § 10)
Art 3.2: ETSI EN 302 248 V1.2.1:2013
ETSI EN 302 248 V2.1.1:2016 (§ 6.6 , § 6.7 , § 6.8 and § 6.9)

as per Annex III (Module B) for the performance set out in this certificate, are applied.

Certificate issued February 4, 2019

Certificate was first issued February 4, 2019

Certificate Revision: 0

Nemko S.p.A.

Authorized signatory: Marco De Angelis

NB 2051

This certificate has been granted by Nemko Spa a Socio Unico, Via del Carroccio 4, 20853 Biassono (MB), Italy

This certificate remains valid, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Nemko. Should the specified regulations or standards be amended, the products are to be re-approved prior to being placed on the market. Nemko Spa is designated by the Italian Notifying Authority "Ministry of Economic Development".

Any person not a party to the contract pursuant to which this document is delivered may not assert a claim against Nemko for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel in the establishment or issuance of this document, and in connection with any activities for which it may provide.

ANNEX 1 – PRODUCT SPECIFICATIONS

PRODUCT DESCRIPTION

Equipment identification: S-Band radar system for surface maritime navigation
Model/type: LD-2330SRK/12/AC-DW
Variants: -
Brand/trade name: GEM Elettronica S.r.l.
Supply voltage: 115 Vac - 50/60 Hz (ASU-41001 power supply unit, SSA-10000 safety switch, SU76-02S S-Band scanner unit and MLD-2301 23" monitor assembly)
24 Vdc (RBX-702A multi-function processor unit and MFK-201 multi-function keyboard unit with trackball)
Rated power/current: < 200 W

TECHNICAL CHARACTERISTICS

Type of radio interface: Non-SOLAS S-Band radar
Intended purpose: Surface maritime navigation aid (e.g. pilotage and anti collision)
Class of equipment: Class 2 - Radiolocation
Frequency range: 3050 ± 30 MHz (ass. band 2900 - 3100 MHz)
Transmit power: 30 kW (peak power pulsed)
Maximum duty cycle: < 0.1%
Antenna type: Dedicated antenna (AU20 12S array unit 12')
Maximum antenna gain: 28 ± 1 dB
Firmware: radar control: PRG421892
modulator: PRG422328
concentrator: PRG404530

MANUFACTURER

Name: GEM Elettronica S.r.l.
Address: Via Amerigo Vespucci 9 - 63074 - San Benedetto del Tronto (AP), Italy

ADDITIONAL INFORMATION

None.

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ANNEX 2 - SCHEDULE OF APPROVAL

SCOPE OF EXAMINATION

<input checked="" type="checkbox"/> Protection of Health and Safety, according to Article 3(1)(a).	COMPLIES
<input checked="" type="checkbox"/> Electromagnetic Compatibility (EMC), according to Article 3(1)(b).	COMPLIES
<input checked="" type="checkbox"/> Radio Spectrum Use, according to Article 3(2).	COMPLIES
<input type="checkbox"/> Special Radio Features, according to Article 3(3)(a)-(i).	N/A

APPLICATIONS/LIMITATIONS

Nil.

MARKING OF PRODUCT

The Manufacturer and Type Designation shall be applied to the product in a visible location.
The equipment shall carry the CE marking of the European Union.

TYPE EXAMINATION DOCUMENTATION

Test report(s)

- Safety test report by Test'Ing Srl (id: RDP_0171-16_d_LVD_r02, dated: 2019-02-01)
- EMC test report by Test'Ing Srl (id: RDP_0591-17_EMC_r01, dated: 2018-05-29)
- Radio test report by Nemko SpA (id: 309042TRFWL, dated: 2016-11-09)
- Radio test report by Test'Ing Srl (id: RDP_0591-17_RAD_r01, dated: 2018-06-08)

Additional documentation

- RED technical file by GEM Elettronica S.r.l. (id: FTCPF113881, Rev.1, dated 2019-02-01)

ADDITIONAL INFORMATION

None.

<< End of certificate >>

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Nemko Italy

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