

# EU-Type Examination Certificate

## 2051-RED-221102

In compliance with Radio Equipment Directive 2014/53/EU 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, this certificate applies to the product(s)

**Accessory for protective personal mask**  
**Model: Active Shield**

Placed on the market under the name or trade mark of

**Narvalo S.r.l.**  
**Via Pietro Maroncelli, 17**  
**20154 - Milano, Italy**

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

- Art 3.1a:** Assessment for conformity to Art. 3.1a (Safety)  
EN 50360:2017
- Art 3.1b:** ETSI EN 301 489-1 V2.2.3:2019  
ETSI EN 301 489-17 V3.2.4:2020
- Art 3.2:** ETSI EN 300 328 V2.2.2:2019

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

Certificate issued March 21, 2022  
*This Certificate was first issued on March 21, 2022*

This certificate consists of 3 pages  
Certificate revision: 1.0

**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 for ten years from the issue date, 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 S.p.A. 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: Accessory for protective personal mask  
Model/type: Active Shield  
Variants: -  
Brand/trade name: **Narvalo**  
Power Supply: 5 Vdc, from USB  
3.7 Vdc, 800 mAh, from rechargeable Li-Po battery

### TECHNICAL CHARACTERISTICS

Type of radio interface: BLE (NFC not used)  
Intended purpose: Accessory for protective personal mask with BLE interface  
Class of equipment: Class I, Sub-class 22 (Wideband Data Transmission Systems) of Commission Decision 2000/299/EC  
Frequency range: 2402 ÷ 2480 MHz (ass. band 2400 ÷ 2483.5 MHz)  
Transmit power: max 20 dBm (6 dBm measured)  
Modulation type: GFSK  
Channel separation: 2 MHz  
Antenna type: integral (chip antenna, type AT3216-B2R7HAA)  
Maximum antenna gain: 0.5 dBi  
Firmware: 28.7.3.0

### MANUFACTURER

Name: Narvalo S.r.l.  
Address: Via Pietro Maroncelli, 17 - 20154 - Milano, 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 Assessment report by Narvalo S.r.l. (id: RED\_LVD evaluation\_Narvalo Active Shield, dated: 2022-02-09)
- Health test report by Simcom Test S.r.l. (id: SC-04166-1230-01, dated: 2022-02-11)
- EMC test report by Nemko SpA (id: 453060TRFEMC, dated: 2021-12-11)
- Radio test report by Nemko SpA (id: 453060TRFWL, dated: 2021-12-11)

#### Additional documentation

- RED technical file by Narvalo S.r.l. (id: TCF-RED\_Active Shield, Rev. 0, dated 2022-01-28)

### ADDITIONAL INFORMATION

None.

<< End of certificate >>

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