



Marine & Offshore

Certificate number: 19913/D0 BV

File number: ACE 11/322/01

Product code: 4161H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**ISKRA d.o.o.**

LJUBLJANA - SLOVENIA

*for the type of product*

**MISCELLANEOUS SWITCHBOARD INSTRUMENTS**

Type: FQ and SQ series

### Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

SIST EN 60051-1:2017 ; SIST EN 60051-2:1995 ; SIST EN 60051-3:1995 ; SIST EN 60051-9:2021

SIST EN 61010-1:2010

SIST EN 61326-1:2021

EC Code : 31

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 17 Jun 2030**

**For Bureau Veritas Marine & Offshore,**

At BV RIJEKA, on 17 Jun 2025,

Slaven Celic

***This certificate was created electronically and is valid without signature***



This certificate remains valid until the date stated above, 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 Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore 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 of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <https://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypec.jsp?id=j7ftjc30de>

BV Mod. Ad.E 530 June 2017

This certificate consists of 2 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

Meters for AC Voltage or Current with a moving iron and Phase Sequence indicator comprising the following models:

Type	Description
FQ 0x07L*	Meter for AC Voltage or Current with a moving iron
FQ 3107L	Meter for AC Voltage or Current with a moving iron and a selector switch for desired voltage (144x144 mm)
FQ 3207L	Meter for AC Voltage or Current with a moving iron and a selector switch for desired voltage (96x96 mm)
FQ 3307L	Meter for AC Voltage or Current with a moving iron and a selector switch for desired voltage (72x72 mm)
FQ 1207L	Double Voltage Meter with measuring systems on two levels
FQ 1208L	Double Voltage Meter with measuring systems on one level
SQ 0201	Phase Sequence Indicator

\* **Note:** x = 1,2,3 or 4.

### 2. DOCUMENTS AND DRAWINGS:

#### **Iskra d.d.:**

Specifications N° GB P 22.021.150, Version 3.00, dated Jun 2018

Specifications N° GB P 22.065.085, Version 1.01, dated Apr 2017

Specifications N° GB P 23.012.570, Version 3.00, dated Jun 2018

Specifications N° GB P 23.012.730, Version 3.00, dated Jul 2018

Selection of Samples by certificate group, dated 27.03.2025

TAC Renewal Gap Analysis dated 27.03.2025

### 3. TEST REPORTS:

#### **SIQ:**

Environmental Test Reports No. T223-0295/06 and T223-0297/06 dated 2006-11-23.

Test Report No. T251-0198/25 M1 rev 1.0 dated 2025-05-14

Test Report No. T211-0235/25 dated 2025-03-25

### 4. APPLICATION / LIMITATION:

4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - BUREAU VERITAS Environmental Category, **EC Code: 31.**

4.4 - The equipment fulfils the EMC requirements for installation in General power Distribution Zones.

4.5 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 9.

### 5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above types of product are to be supplied by **ISKRA d.o.o.** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **ISKRA d.o.o.** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **ISKRA d.o.o.** has declared to Bureau Veritas the following production site:

**ISKRA d.o.o. PE MIS**  
**Ljubljanska cesta 24a**  
**SI-4000 KRANJ**  
**SLOVENIA**

### 6. MARKING OF PRODUCT:

- Trade name.

- Date of manufacture.

- Equipment type or model identification under which it was type-tested.

### 7. OTHERS:

7.1 - It is **ISKRA d.d.o.**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 19913/C0 BV issued on 01 Aug 2018 by the Society.

\*\*\* END OF CERTIFICATE \*\*\*