



MARINE DIVISION

Certificate number: 19915/B0 BV

File number: ACE 11/322/01

Product code: 4161D

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

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

ISKRA Sistemi, d.d.

Ljubljana - SLOVENIA

for the type of product

MISCELLANEOUS SWITCHBOARD INSTRUMENTS

Type: ZQ 0217L, ZQ 1217L, ZQ 0207L, ZQ 2207L, ZQ 1207L and ZQ 1208L.

Requirements:

BUREAU VERITAS Rules for the Classification of Steel Ships.

SIST EN 60051-1:2000 ; SIST EN 60051-4:1995 ; SIST EN 60051-9:1995 ; EN 61010-1:2002 ; SIST EN 61326:1998 ; SIST EN 60051-1:1994 ; SIST EN 60051-4:1984 ; SIST EN 60051-9:1988 ; EN 61010-1:2002.

This certificate is issued to attest that BUREAU VERITAS 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: 29 Mar 2018

For BUREAU VERITAS,

At BV RIJEKA, on 29 Mar 2013,

Branko VISKOVIĆ



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. 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 Division 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 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 SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Reed Frequency Meters, Pointer Frequency Meters and Two-System Frequency Meters comprising the following models:

Type	Description
ZQ 0217L	Reed Frequency Meter
ZQ 1217L	Two-System Reed Frequency Meter
ZQ 0207L	Pointer Frequency Meter (scale 90°)
ZQ 2207L	Pointer Frequency Meter (scale 240°)
ZQ 1207L	Two-System Frequency Meter with measuring systems on two levels
ZQ 1208L	Two-System Frequency Meter with measuring systems on the same level

2. DOCUMENTS AND DRAWINGS :

Iskra MIS: Characteristics of Products from Web site.

3. TEST REPORTS :

SIQ:

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

EMC / EMI Test Report T251-0376/06 dated 2007-01-23.

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.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The Meters are to be supplied by **ISKRA Sistemi, d.d.** in accordance with the type described in this certificate.

5.2 - This type of product is within the category DBV of Bureau Veritas Rule Note NR320.

6. MARKING OF PRODUCT :

Trade name.

Date of manufacture.

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

7. OTHERS :

7.1 - This approval is given with the understanding that the Society reserves the right to require check tests to be carried out on the above mentioned equipment in Clause I at any time, and that the Manufacturer:

ISKRA Sistemi, d.d.

Stegne 21

SI - 1000 Ljubljana

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SLOVENIA

with accept the responsibility for informing shipbuilders, ship-owners or their sub-contractors of the proper methods of use and general maintenance of the equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 19915/A0 BV issued on 19/11/2007 by the Society.

*** END OF CERTIFICATE ***