



Marine &amp; Offshore

Certificate number: 19868/C0 BV

File number: AP 2919

Product code: 3992I

*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***SELCO**

Roskilde - DENMARK

*for the type of product***SUB-ALARM SYSTEMS**

Analogue Alarm Annunciator Type: M3000

**Requirements:**

BUREAU VERITAS Rules for the Classification of Steel Ships.

EC Code : 33

*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: 09 Dec 2025**

For Bureau Veritas Marine &amp; Offshore,

At BV FREDERICIA, on 09 Dec 2020,

Jesper JENSEN



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](http://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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

The SELCO M3000 Alarm Annunciator is intended to be used with all types of analogue sensors that provide a current or voltage signal.

#### **Main Characteristics:**

Power Supply: 24 VDC  
 Inputs: 24 (20 mA, 10 VDC & 24 VDC)  
 Outputs: 14 on/off open collector  
 Alarms: 48 programmable  
 LEDs: 24 controlled by one or more alarms  
 LCD: 2 x 16 characters  
 Communication: RS485 (MODBUS-RTU or SELCO Bus Protocol)  
 Ingress Protection: IP54 - Front  
 Operating Temp: -20°C to 70°C  
 Firmware: 281011version M111028.hex

### 2. DOCUMENTS AND DRAWINGS :

#### **SELCO:**

Datasheet M3000 Analogue Alarm Annunciator, dated May 2012.  
 User's Manual No. M3096A-94E, undated.  
 M3000 Firmware Version History, dated Nov. 13, 2014.

### 3. TEST REPORTS :

#### **DELTA:**

Test Report Ref. K251196-6 dated 2000-10-16.  
 Test Report Ref. DANAK-198611 dated 20 December 2006 (EMC Tests to 2 GHz).

#### **For modification C0 version:**

#### **EKTOS:**

Supplementary test report No. P20-0110-6, dated 27-10-2020.

### 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: 33.
- 4.4 - The equipment fulfils the EMC requirements for installation in General power Distribution Zones only.
- 4.5 - The equipment, once installed on board ship, is to be tested in accordance with the above referred Regulations under the supervision of a Society's Surveyor.
- 4.6 - Only Hardware and Firmware / Software successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer are covered by this certificate.
- 4.7 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 7.

### 5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The above products are to be supplied by SELCO in compliance with the type and the requirements described in this certificate.
- 5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.
- 5.3 - BV product certificate is required.
- 5.4 - 5.4 - For information, SELCO has declared to Bureau Veritas the following production site(s):

**SELCO**  
**Betonvej 11**  
**DK-4000 Roskilde**  
**DENMARK**

### 6. MARKING OF PRODUCT :

- 6.1 - Maker's name or trade mark,
  - Serial number of the units,
  - Equipment type number or model identification under which it was type-tested.
- 6.2 -  or  conformity marking, as relevant.

**7. OTHERS :**

7.1 -It is SELCO'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 No. 19868/B0 BV issued on 07 Jan 2015 by the Society.

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