

TYPE APPROVAL CERTIFICATE**This is to certify:****That the Monitoring System**with type designation(s)
Analog Alarm Annunciator M3000-30

Issued to

SELCO ApS
Roskilde, Sjælland, Denmarkis found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Location classes:**

Temperature	B*
Humidity	B
Vibration	B
EMC	B
Enclosure	B (Panel front only)

***Cold temperature test to -20°C carried out.**Issued at **Høvik** on **2019-09-27**for **DNV GL**This Certificate is valid until **2021-06-30**.DNV GL local station: **Denmark CMC**Approval Engineer: **Nils Jarem**

Trond Sjøvåg
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-004181-6**
Certificate No: **TAA000014J**
Revision No: **1**

Product description

SELCO Analog Alarm Annunciator M3000-30

Software revisions (containing dates): M990408.BIN, M000811.BIN, M010104.BIN, M010319.HEX, M010920.HEX, M011001.HEX, M020121.HEX, M020722.HEX, M030325.HEX, M030826.HEX, M040216.HEX, M040820.HEX, M040829.HEX, M050120.HEX, M050322.HEX, M050407.HEX, M070822.HEX, M070822.HEX, M111028.hex

Approval conditions

The following documentation of the actual application is to be submitted for approval in each case:

- Reference to this Type Approval Certificate
- System block diagram
- Power supply arrangement (may be part of the System block diagram)
- List of controlled and monitored points
- Test program for testing at the manufacturer.

The Type Approval covers hardware and software listed under Product description.

As long as the units are covered by the Type Approval, a product certificate according to Pt.4 Ch.9 Sec.1 will not be required. Correct configuration and set up for each delivery to be tested during commissioning after installation.

The current software numbers and versions are listed in document "Basic Software Description, July 2003 – M3000" and the revision of software is listed in appendices to this document: Appendix 1 – List of software versions, Appendix 2 – Technical Notes on Versions.

Clause for application software control:

All changes in software are to be recorded as long as the system is in use on board. The records of all changes are to be forwarded to DNV GL for evaluation and approval.

Major changes in the software are to be approved before being installed in the computer.

Certification of Application Functions may be required for the particular vessel.

Type Approval documentation

Ring binder "Analog Alarm Annunciator M3000-30", containing:

1. Data Sheet (M3095-92 E)
2. User Manual (M3096A-94E)
3. M3000 Programming Scheme (M3096B-92E)
4. Appendix - Master List

Delta test report no. DANAK-195254 dated 2000-10-16 & DANAK-198611 dated 2006-12-20

Updated data sheet (M3095-62E)

Updated Programming User Manual (M3096B-33 E)

Updated User Manual (M3096-31E)

Type approval renewal assessment report for TAA000014J, DNV GL Copenhagen 2019-07-03

Tests carried out

Applicable tests according to Standard for Certification No. 2.4, April 2006, including tests permitting installation on bridge.

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

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Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE