

TYPE APPROVAL CERTIFICATE

Certificate no.:
TAA000014J
Revision No:
3

This is to certify:
that the Monitoring System

with type designation(s)
Analog Alarm Annunciator M3000-30

issued to
SELCO ApS
Roskilde, Sjælland, Denmark

is found to comply with
DNV 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.

Location classes:

Temperature	B (tested to -20°C)
Humidity	B
Vibration	B
EMC	B
Enclosure	B (panel front only)

Issued at **Høvik** on **2023-12-04**

This Certificate is valid until **2025-12-31**.

DNV local unit: **Denmark CMC**

Approval Engineer: **Ståle Sneen**



for **DNV**

Digitally Signed By: Elter, Frederik Tore
Location: DNV Høvik, Norway

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



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

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 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

EKTOS test report no. P20-0110-6 dated 2020-10-27

Updated data sheet (M3095-62E)

Updated Programming User Manual (M3096B-33 E)

Updated User Manual (M3096-31E)

Type approval renewal assessment report for TAA000014J, Denmark CMC 2023-03-29.

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021, including tests permitting installation on bridge.

Marking of product

The products to be marked with:

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

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