



## Confirmation of Product Type Approval

**Company Name:** SELCO APS

**Address:** BETONVEJ 11, DK-4000 ROSKILDE, Denmark

**Product:** Alarm Annunciator

**Model(s):** M1000 series

**Endorsements:**

<b>Certificate Type</b>	<b>Certificate Number</b>	<b>Issue Date</b>	<b>Expiry Date</b>
Product Design Assessment (PDA)	20-1992601-PDA	25-NOV-2020	24-NOV-2025
Manufacturing Assessment (MA)	20-4548454	03-DEC-2020	02-DEC-2025
Product Quality Assurance (PQA)	NA	NA	NA

### **Tier**

3 - Type Approved, unit certification not required

### **Intended Service**

ABS Classed Vessels and Offshore Facilities in accordance with the listed ABS Rules and International Standards.

### **Description**

Alarm monitor with 10 digital sensor inputs, configurable by PC, communication protocol Modbus RTU.

Revision D includes Ethernet communication, embedded webserver and alarm log.

### **Ratings**

Voltage supply: 12 to 24 VDC or 48 to 110 VDC

Operating ambient temperature: -20 to +70 C degrees.

Degree of protection: IP 56

### **Service Restrictions**

1. Where the product is used in a Category II or III Computer Based Systems as described in Section 4-9-3/Table 1 of the 2020 Marine Vessel Rules, the complete assembly unit or subassembly unit is to be tested at the manufacturer's shop in the presence of the Surveyor to verify compliance with the tests in 4-9-9/15.7 Table 2. Otherwise, unit certification is not required.

2. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

### **Comments**

1. Environmental & EMC tests performed by Delta: Test report No. Danak-19/14491.
2. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes, Drawings and Documentation**

Drawing No. M1000C-M1000D P20-0110-5, Supplementary test report M1000C-M1000D P20-0110-5

Drawing No. 119-31853-1, Selco ApS - IPX6 water test of M1000 alarm panel

Support documentation from previous review:

Drawing No. 02, D1000 [PGR-8800] Firmware Revision History

Drawing No. 1-A-082614; M1000D Datasheet UK

Drawing No. 006; M1000D Firmware Version History

Drawing No. 007; M1000D Manual UK

Drawing No. Drawing No. Danak-1914491; Test for marine approval of M1000, M2600 and PGR-8800.

Drawing No. Danak-K251196-3 Rev. 2, Type approval testing of M1000 alarm annunciator, M2000 engine controller and M2100 emergency controller performed for selco A/S

**Term of Validity**

This Product Design Assessment (PDA) Certificate remains valid until 24/Nov/2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

**ABS Rules**

2020 Rules for Condition of Classification: 1-1-4/7.7, 1-1-A3 & A4

2020 Marine Vessel Rules: 4-9-9/13, 4-9-9/15.7 Tables 1 & 2

2020 Rules for Conditions of Classifications - Offshore Units and Structures: 1-1-4/9.7, 1-1-A2 & A3

2020 Mobile Offshore Units Rules: 6-1-1/9, 6-1-1/13

**International Standards**

IACS UR E10: Rev. 7: 2018

IEC 60945 Ed. 4.0 B:2002

**EU-MED Standards**

NA

**National Standards**

NA

**Government Standards**

NA

**Other Standards**  
NA

A handwritten signature in blue ink, appearing to read "James J. White".

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 12-Feb-2021 6:25

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.