



EUROPEAN UNION RECOGNISED ORGANISATION (EU RO) MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

Certificate No:
MRA000004H

In accordance with Article 10.1 of EU Regulation 391/2009

This Certificate is issued to

Hatteland Technology AS
Aksdal, Norway

for

Touch Screen i.e. a Display Monitor or a Video Screen that is also an Input Device

with type designation(s)

HD 08T30 SCM, HD 13T30 SCM, HD 16T30 SCM, HD 21T30 SCM, HD 24T30 SCM, HD 27T30 SCM

The product is found to comply with

EU RO Mutual Recognition Technical Requirements for Touch Screen i.e. a Display Monitor or a Video Screen that is also an Input Device

Intended service

In control, monitoring, and alarm systems subject to classification requirements.

Temperature [°C]: Compact: -15°C to 70°C, Standard: -15°C to 55°C

Vibration: ±1 mm / 0.7 g

EMC: All locations including bridge and deck zone

IP Code: IP22 standalone, IP66 when sealed to console

This is to certify:

that the Product referred to herein has been inspected for the Manufacturer, pursuant to the relevant requirements of the European Union Recognised Organisation Mutual Recognition procedure, required by Article 10.1 of EU Regulation 391/2009, and has been found in accordance with those requirements.

This Certificate is valid until **2029-01-04**.

Issued at **Høvik** on **2024-01-05**

DNV local unit: **Haugesund**

for **DNV**

Approval Engineer: **Ståle Sneen**

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Frederik Tore Elter
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.

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.



Form code: MRTA 201

Revision: 2022-12

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Product description

Series E T30 Single Cable Monitors with touch display. The type approval covers the following types:

Display Type No.	Description	Power supply options	Compass safe distance	
			Standard	Steering
Series E T30 Single Cable Monitor – Compact				
HD 08T30 SCM	Single Cable Monitor	12-24 VDC + USB-C (20 VDC / 3 A)	30 cm	5 cm
HD 13T30 SCM	Single Cable Monitor		60 cm	35 cm
Series E T30 Single Cable Monitor – Standard				
HD 16T30 SCM	Single Cable Monitor	100-240 VAC – 50/60 Hz + 24 VDC, 100-240 VAC – 50/60 Hz, 12-24 VDC, USB-C (20 VDC / 3 A).	60 cm	35 cm
HD 21T30 SCM	Single Cable Monitor		70 cm	60 cm
HD 24T30 SCM	Single Cable Monitor		100 cm	70 cm
HD 27T30 SCM	Single Cable Monitor		80 cm	70 cm

The type approved configurations are described by the respective data sheets listed under Type Approval documentation.

Overview of tested firmware versions and revision history up to date of issue of this certificate are listed in LET_DNV - Type Approval 2023 – 20230510-1 Rev.1 listed under Type Approval documentation.

Accessories/Options information are listed in DOC209639-1 Rev.1, listed under Type Approval documentation.

Manufactured by

Hatteland Technology
Eikeskogvegen 52, 5570 Aksdal, Norway

Application/Limitation

The Type Approval covers all hardware listed under Product description. The display monitors are intended for use in alarm and monitoring systems subject to classification.

The dimming function programmable and needs to be verified through functional testing when used in a system subject to classification.

Type Approval documentation

Marking of product

Manufacturer's name: Hatteland Technology
Type No.: Main type as listed under product description + 7 characters to describe the options
Unique serial No.
Date of manufacture: YYYYMMDD
Power supply ratings: Input voltage as listed under product description + power rating (W)

Other conditions

The (touch) monitors have been verified for compliance with EU RO Mutual Recognition Technical Requirements for Touch Screen i.e. a display monitor or a video screen that is also an input device version 0.4, dated 2023-01-01, and (all) for Display Monitors, Video Screens, Terminals version 0.6, dated 2023-01-01.

Applicable tests according to IACS Unified Requirements E10 rev. 7 and rev. 8 have been verified. Applicable tests for protected equipment according to IEC 60945 (Fourth edition - 2002) including Corrigendum 1 have additionally been verified.

Environmental test parameters	DNV local classes
Temperature: Compact: -15°C and 70°C, Standard: -15°C and 55°C	B, A
Vibration: ±1 mm / 0.7 g	A
EMC: All locations including bridge and open deck	B
Enclosure: IP22 standalone, IP66 when sealed to console (IP ratings according to IEC 60529)	A, B

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

Periodical assessment is to be performed annually and at renewal of this certificate.

Generic Statement for EU RO MR Type Approval Certificate

When a product is presented with this EU RO MR Type Approval Certificate for given application, its acceptability with regards to the limitations stated in the certificate conditions defined in 1b, 1c and 1d of the applied Technical Requirement will be evaluated by the EU RO in charge of classing the ship or being in charge of the unit/system certification.

In accordance with Article 10 of Regulation (EC) No 391/2009 of the European Parliament and of the Council of 23 April 2009 "on common rules and standards for ship inspection and survey organizations", the following organizations, recognized by the EU on this date, have agreed on the technical and procedural conditions under which they will mutually recognize this certificate:

- American Bureau of Shipping (ABS);
- Bureau Veritas (BV);
- China Classification Society (CCS);
- Croatian Register of Shipping (CRS);
- DNV;
- Indian Register of Shipping (IRS);
- Korean Register (KR);
- Lloyd's Register Group Ltd. (LR);
- Nippon Kaiji Kyokai General Incorporated Foundation (ClassNK);
- Polish Register of Shipping (PRS);
- RINA Services S.p.A. (RINA).

The scheme for the mutual recognition of class certificates for materials, equipment and components laid down by Article 10(1) of Regulation (EC) No 391/2009 is only enforceable within the Union in respect of ships flying the flag of a Member State. As far as foreign vessels are concerned, the acceptance of relevant certificates remains at the discretion of relevant non-EU flag States in the exercise of their exclusive jurisdiction, notably under the United Nations Convention on the Law of the Sea (UNCLOS). (In accordance with COMMISSION IMPLEMENTING REGULATION (EU) No 1355/2014 amending Regulation (EC) No 391/2009 - recital (25)).