

EU RO MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

This Certificate is issued to

ORION Technology Co., Ltd.
Gimcheon-si, Gyeongbuk, Korea

for

Monitors, Terminals

with type designation(s)

19RTLT, 24RTLT

The product is found to comply with

EU RO Mutual Recognition Technical Requirements for Display Monitors, Video Screens, Terminals

Intended service

Display for alarm and monitoring systems subject to classification.

The monitors have been verified for compliance with EU Mutual Recognition Technical Requirements for display monitors, video screens, terminals version 0.3 dated 2016-04-01.

Temperature [°C]: -25°C and 70°C

Vibration: ±1mm / 0.7g

EMC: All locations including bridge and open deck

IP Code: IP54 Front console mounted / IP22

This Certificate is valid until **2023-02-11**.

Issued at **Høvik** on **2018-02-12**

DNV GL local station: **Ulsan**

for **DNV GL**

Approval Engineer: **Nils Jarem**

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Odd Magne Nesvåg
Head of Section



Product description

19RTLTL and 24RTLTL EMS-MOP TOUCH MONITORS

- 19" and 24" Maritime Monitor (EMS-MOP)
- Display Port, VGA, HDMI
- P-Capacitive MultiTouch 10 Points
- USB Port (Front)

Power supply: 24 V DC

Compass safe distances:	Standard compass:	195 cm
	Steering compass:	125 cm

Tested hardware/firmware versions:

19RTLTL : FreesiaN_24RTLTL_20170411.BIN dated 2017-04-11

24RTLTL : FreesiaN_19RTLTL_20170206.BIN dated 2017-04-11

Manufactured by

Orion Technology Co., Ltd.
1242, Apo Industrial Zone,
Kimcheon-Shi, Kyung-Buk,
Korea

Application/Limitation

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

The monitors are available with touch screen functionality, which is beyond the scope of this approval. The touch screen hardware has been verified according to the EU MR Technical Requirements for display monitors, video screens, terminals, but any use of touch functionality in classed applications needs to be verified through functional testing.

Type Approval documentation

Marking of product

Manufacturer's name: ORION TECHNOLOGY CO., LTD.
Model No.: Model name as listed under product description
Unique serial No. Barcode including date and serial no.
Power supply ratings: 24V DC

Other Conditions

The monitors have been verified for compliance with EU Mutual Recognition Technical Requirements for display monitors, video screens, terminals version 0.3.

Environmental test parameters

Temperature: -25°C and 70°C

Vibration: ±1mm / 0.7g

EMC: All locations including bridge and open deck

Enclosure: IP 54 front console mounted / IP22

Salt mist: Corrosion test waived.

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.

Job Id: **262.4-000080-2**
Certificate No: **MRA000001M**

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.

END OF CERTIFICATE