

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Peripheral Equipment**

with type designation(s)
Monitor series AMON

Issued to

Autic System AS
TØNSBERG, Norway

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft
IEC 60945 Ed. 4 (2002-08) Maritime navigation and radiocommunication equipment and
systems – General requirements – Methods of testing and required test results

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Location classes:

Temperature	D
Humidity	B
Vibration	A
EMC	B
Enclosure	A / IP20,
	B / IP55 (front panel only)

Issued at **Høvik** on **2017-11-09**

This Certificate is valid until **2022-12-31**.

DNV GL local station: **Sandefjord**

Approval Engineer: **Ståle Sneen**

for **DNV GL**

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Odd Magne Nesvåg
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.



Product description

Active matrix TFT LCD monitor with resistive touch display, comprising the following types:

Type	Description		Power supply
AMON-84T-AL	8.4"	4:3 format	90~264 VAC / 9~32 VDC
AMON-104T-AL	10.4"	4:3 format	90~264 VAC / 9~32 VDC
AMON-104T-AL-XG	10.4"	4:3 format	90~264 VAC / 9~32 VDC
AMON-116T-AL	11.6"	16:9 format	90~264 VAC / 9~32 VDC
AMON-120T-AL	12"	4:3 format	90~264 VAC / 9~32 VDC
AMON-120T-AL-XG	12"	4:3 format	90~264 VAC / 9~32 VDC
AMON-150T-AL	15"	4:3 format	90~264 VAC / 9~32 VDC
AMON-156T-AL	15.6"	16:9 format	90~264 VAC / 9~32 VDC
AMON-170T-AL	17"	4:3 format	90~264 VAC / 9~32 VDC
AMON-185T-AL	18.5"	16:9 format	90~264 VAC / 9~32 VDC
AMON-190T-AL	19"	4:3 format	90~264 VAC / 9~32 VDC
AMON-220T-AL	22"	16:9 format	90~264 VAC / 9~32 VDC
AMON-240T-AL	24"	16:9 format	90~264 VAC / 9~32 VDC

Note: Optional monitor types ending with -8N or -10N means Sunlight readable display

Standard compass safe distance: 100 cm
Steering compass safe distance: 70 cm

Place of manufacture

Nagasaki IPC Technology Corp.,
New Taipei City, Taiwan

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Type Approval documentation

Tests carried out

Applicable tests according to Standard for Certification No. 2.4, April 2006.

Applicable tests for protected equipment according to IEC 60945, 4th edition (2002) with 8.2 Corrosion test waived.

Marking of product

Type as listed under Product description
Autic System
Unique serial number
Power supply ratings
Compass safe distance

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 after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE