

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Peripheral Equipment

with type designation(s)

Pro-face GP4000 Series, Pro-face GP4100 Series Color, Magelis HMIGTO Series, Magelis HMISTO Series Color

Issued to

**Schneider Electric – Digital Electronics Corp.
 Osaka, Japan**

is found to comply with

DNV GL 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 GL.

Location classes:

*** Enclosure: IP65 only for front panel**

Type	Temperature	Humidity	Vibration	EMC	Enclosure
Pro-face GP4000 Series	D	B	A	B	B*
Pro-face GP4100 Series Color	A	B	A	B	B*
Magelis HMIGTO Series	D	B	A	B	B*
Magelis HMISTO Series Color	A	B	A	B	B*

Issued at **Busan** on **2017-06-19**

for **DNV GL**

This Certificate is valid until **2021-12-31**.

DNV GL local station: **Kobe**

Approval Engineer: **Baeg Soon Choi**

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Michael Jost Auf der Stroth
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.



Job Id: **262.1-012543-3**
Certificate No: **TAA000002W**
Revision No: **1**

Product description

Touchscreen Graphic Terminals with type designations:

GP4000 Series

PFXGP4601TAD#, PFXGP4601TMD#, PFXGP4603TAD#,
PFXGP4501TADW#, PFXGP4501TAD#, PFXGP4501TMD#, PFXGP4503TAD#,
PFXGP4401TAD#, PFXGP4401WADW#,
PFXGP4301TAD#, PFXGP4303TAD#, PFXGP4301TADW#,
PFXGP4201TAD#, PFXGP4203TAD#, PFXGP4201TADW#

GP4100 Series Color

PFXGP4114T*D#, PFXGP4115T*D#, PFXGP4116T*D#

HMIGTO Series

HMIGTO6310#, HMIGTO5310#, HMIGTO4310#, HMIGTO3510#,
HMIGTO2310#, HMIGTO2300#, HMIGTO1310#, HMIGTO1300#

HMISTO Series Color

HMISTO705#, HMISTO715#, HMISTO735#

1. * is may be any letter or number that memory size and/or software combinations.
2. # is may be followed by any letter or number that indicates color, coating on internal printed circuit board, memory size and/or software combinations.

Manufactured by

Place of Manufacture:

Wuxi Pro-face Electronics Co., Ltd.

No.20 Hanjiang Road, Wuxi, New District, Wuxi, Jiangsu, China, 214028

PT Schneider Electric Manufactureing Batam

Batamindo Industrial Park, Block 4 & 208, Muka Kuning, Batam Island, 29433, Indonesia

Responsibility

Digital Electronics Corporation works/ takes the responsibility that both design and production are in compliance with Rules, Standard and/or Regulations listed on page 1 of this Type Approval Certificate.

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by inclusion in an instrument list, by the manufacturer of the application system in each case. Reference is made to DNV GL Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Application/Limitation

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An appropriate noise filter and/or ferrite cores shall be used on the connected cables according to the manufacturer's specifications(GP4000 Series, HMIGTO Series).

For installation on bridge, the equipment to be installed not less than 5m away from magnetic compass as required in 11.2 of IEC60945.

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rule and Ex-certification/Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

Type Approval documentation

Type Test Report for Graphic Operator Interface GP4000 Series (Doc No.NSH-11032-TR, 284 pages)
GP4000 Series Hardware Manual
Test Specifications (Doc No. NSH-11032-TS)

For Revision June 2015

Type Approval Periodical Assessment Report, dated 2015-08-04.

For Renewal Mar 2017

1. The Project Plan for marine certificate document no. 16RT-4RE00215 dated 25 Jan 2017
2. Technical document : Report no.16RT-4RE00213 dated 25 Jan 2017
3. Technical document : Report no.17RT-4RE00217 dated 25 Jan 2017
4. Accreditation Certificate no. RTL 03220 by Testing Laboratory dated 27 July 2016
5. CNAS : Registration no. CNAS L0130 dated 2016-04-07
6. CNAS : Registration no. CNAS L5315 dated 2014-10-21
7. IP Test report : Document no. NSH-11032-25 dated 2 July 2012

8. Test report : Report no. 16RT-4VE 00137 dated 25 Jan 2017
9. Test report : Report no. LIC 12-16-018 dated 23 Mar 2016
10. Test report : Report no. LIC 12-16-020 dated 23 Mar 2016

For Revision June 2017

Type Approval renewal Assessment Report, dated 2017-06-09.

Tests carried out

Applicable tests according to Class Guideline DNVGL-CG-0339 November 2016.

Marking of product

Products will be marked as

Schneider Electric, Pro-face or Pro-face by Schneider Electric

Periodical assessment

The scope of the retention/renewal survey 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 survey are:

- Ensure that type approved documentation is available.
- Inspection of factory samples, selected at random from the production line (where practicable)

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- 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

Retention survey is to be performed at least every second year and at renewal of this certificate.

END OF CERTIFICATE