



Marine & Offshore

Certificate number: 14167/D0 BV

File number: AP 3278

Product code: 4483H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**Schneider Electric Japan Holdings Ltd.**

Osaka - JAPAN

*for the type of product*

**DISPLAY MONITORS / VIDEO SCREENS / TERMINALS**

Telemecanique compact display units

GP4000 and HMIGTO Series

**Requirements:**

BUREAU VERITAS Rules for the Classification of Steel Ships.

EC Code: 31C

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 03 Jun 2028**

**For Bureau Veritas Marine & Offshore,**

At BV KOBE, on 03 Jun 2023,

Shinichi Takemoto

***This certificate was created electronically and is valid without signature***



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 5 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

- 1- **GP4000 Series** is Human Machine Interface which are used for monitoring and controlling systems in marine applications, and;  
 2- **HMIGTO Series** which is a Human Machine Interface used for monitoring and controlling systems in marine applications.

#### 1.1 Approval Range:

##### 1.1.1 GP4000 Series:

##### 1.1.2.a Models:

Model reference for Pro-face brand	Description
PFXGP4601TAD	12.1" SVGA TFT color LCD, analog touch panel, DC type, with/without coating on PCBA.
PFXGP4601TMD	12.1" SVGA TFT color LCD, matrix touch panel, DC type, with/without coating on PCBA.
PFXGP4603TAD	12.1" SVGA TFT color LCD, analog touch panel, DC type, isolated RS-485, with/without coating on PCBA.
PFXGP4501TADW	10.4" VGA TFT color LCD, analog touch panel, DC type, small memory, with/without coating on PCBA.
PFXGP4501TAD	10.4" VGA TFT color LCD, analog touch panel, DC type, with/without coating on PCBA.
PFXGP4501TMD	10.4" VGA TFT color LCD, matrix touch panel, DC type, with/without coating on PCBA.
PFXGP4503TAD	10.4" VGA TFT color LCD, analog touch panel, DC type, isolated RS-485, with/without coating on PCBA.
PFXGP4401TAD	7.5" VGA TFT color LCD, analog touch panel, DC type, with / without coating on PCBA.
PFXGP4401WADW	7.0" WVGA Wide TFT color LCD, analog touch panel, DC type, small memory, with/without coating on PCBA.
PFXGP4301TAD	5.7" QVGA TFT color LCD, analog touch panel, DC type, with/without coating on PCBA.
PFXGP4303TAD	5.7" QVGA TFT color LCD, analog touch panel, DC type, isolated RS-485, with/without coating on PCBA.
PFXGP4301TADW	5.7" QVGA TFT color LCD, analog touch panel, DC type, small memory, with/without coating on PCBA.
PFXGP4201TAD	3.5" QVGA TFT color LCD, analog touch panel, DC type, with/without coating on PCBA.
PFXGP4203TAD	3.5" QVGA TFT color LCD, analog touch panel, DC type, isolated RS-485, with/without coating on PCBA.
PFXGP4201TADW	3.5" QVGA TFT color LCD, analog touch panel, DC type, small memory, with / without coating on PCBA.

Note: \*All models may be followed by any letter(s),number(s)or symbol(s)that indicate color, PCBA coating, memory size or software combinations.

##### 1.1.2.b Electrical Specification:

	GP-4200 Series	GP-4300 Series	GP-4400 Series
Rated Input Voltage	24 V DC	24 V DC	24 V DC
Input Voltage Limits DC	19.2...28.8 V DC	19.2...28.8 V DC	19.2...28.8 V DC
	GP-4500 Series DC Model	GP-4600 Series DC Model	
Rated Input Voltage	24 V DC	24 V DC	
Input Voltage Limits DC	19.2...28.8 V DC	19.2...28.8 V DC	

##### 1.1.2.c Memory specification:

	GP-4201T/GP-4203T GP-4301T/GP-4303T	GP-4201TW GP-4301TW
Application Memory *	FLASH EPROM 16 MB (including a logic program area)	FLASH EPROM 8 MB (including a logic program area)
Data Backup	SRAM 320 KB (Rechargeable lithium battery for backup memory)	SRAM 128 KB (Rechargeable lithium battery for backup memory)

	GP-4401T	GP-4401WW
Application Memory *	FLASH EPROM 32 MB (including a logic program area)	FLASH EPROM 16 MB (including a logic program area)
Data Backup	SRAM 320 KB (Replaceable lithium battery for backup memory)	SRAM 128 KB (Rechargeable lithium battery for backup memory)

	GP-4501T/GP-4503T	GP-4501TW
Application Memory *	FLASH EPROM 32 MB	FLASH EPROM 16 MB

	(including a logic program area)	(including a logic program area)
Data Backup	SRAM 320 KB (Replaceable lithium battery for backup memory)	SRAM 128 KB (Rechargeable lithium battery for backup memory)
<b>GP-4600 Series</b>		
Application Memory *	FLASH EPROM 32 MB (including a logic program area)	
Data Backup	SRAM 320 KB (Replaceable lithium battery for backup memory)	

\* Capacity available for user application.

### 1.1.3 HMIGTO Series:

#### 1.1.3.a Models:

Model Reference*	Description
HMIGTO6310	12.1" SVGA TFT color LCD, analog touch panel, DC type.
HMIGTO5310	10.4" VGA TFT color LCD, analog touch panel, DC type.
HMIGTO4310	7.5" VGA TFT color LCD, analog touch panel, DC type.
HMIGTO3510	7.0" WVGA Wide TFT color LCD, analog touch panel, DC type, small memory.
HMIGTO2310	5.7" QVGA TFT color LCD, analog touch panel, DC type.
HMIGTO2300	5.7" QVGA TFT color LCD, analog touch panel, DC type, small memory.
HMIGTO1310	3.5" QVGA TFT color LCD, analog touch panel, DC type.
HMIGTO1300	3.5" QVGA TFT color LCD, analog touch panel, DC type, small memory.

Note: \*All models may be followed by any letter(s), number(s) or symbol(s) that indicate color, PCBA coating, memory size or software combinations.

#### 1.1.3.b Main Characteristics:

- Rated Input Voltage: 24 VDC (19.2 to 28.8).
- Protection Index: IP 65/20 (Front/Back).
- Operating System: Magelis (333 MHz RISC CPU).
- Firmware Version: 1.0.x for all models.
- Memory: None or 64/96 MB Flash EPROM (depending on model).
- Memory Expansion: 4GB SD Card (depending on model).

## 2. DOCUMENTS AND DRAWINGS:

### 2.2 GP4000 Series:

- Pro-face GP4000 Series Hardware Manual - (New version).

#### - Documents Numbers:

11DD-3PT00499, 11DD-3PT00500, 11DD-3PT00497, 11DD-3PT00494, 11DD-3PT00495, 11DD-3PT00467,  
11DD-3PT00468, 11DD-3PT00474, 11DD-3PT00475, 11DD-3PT00476, 11DD-3PT00483, 11DD-3PT00485,  
11DD-3PT00484.

#### - Schematics Numbers:

10DD-3PE00599B, 10DD-3PE00588B, 10DD-3PE00594C, 10DD-3PE00597A, 10DD-3PE00595A, 10DD-3PE00600B,  
10DD-3PE00601B, 10DD-3PE00602B.

### 2.3 HMIGTO Series:

#### - Schneider Electric:

Human/Machine Interfaces - Optimum Advanced Panels, Magelis GTO dated April 2012

Magelis GTO - Quick Reference Guide dated 06/2012

Application Information, Doc. No. NSH-00000-FO01 Edition 01

Test Specifications, Doc. No. NSH-11032-TS dated 2012/01/19

Agreement for Certification dated 2012-08-21.

#### - Pro-face:

Flame Retardance dated 27 Oct, 2011

Software Version Information dated Nov. 28, 2011.

#### - Drawings Numbers:

11DD-3PT00499, 11DD-3PT00500, 11DD-3PT00497, 11DD-3PT00494, 11DD-3PT00495, 11DD-3PT00467,  
11DD-3PT00468, 11DD-3PT00474, 11DD-3PT00475, 11DD-3PT00476, 11DD-3PT00483, 11DD-3PT00485,  
11DD-3PT00484.

- Electronic Schematics Numbers:  
10DD-3PE00599B, 10DD-3PE00588B, 10DD-3PE00594C, 10DD-3PE00597A, 10DD-3PE00595A, 10DD-3PE00600B,  
10DD-3PE00601B, 10DD-3PE00602B.

**For D0 version:**

- Details of modification rev.10 , dated 2023.03.24

**3. TEST REPORTS:**

**3.1 GP4000 Series:**

Type Test Report for Graphic Operator Interface GP4000 Series - Document No.: NSH-11032-TR, issued on 06.03.2012 including Appendix 1 - EMC Test Report (EMC Test of Graphic Panel) doc. No. 23-265 as well as Appendixes 2 to 5.

**3.2 HMIGTO Series:**

Type Test Report for Graphic Operator Interface GP4000 Series - Document No.: NSH-11032-TR, issued on 06.03.2012 including Appendix 1 - EMC Test Report (EMC Test of Graphic Panel) doc. No. 23-265 as well as Appendixes 2 to 5.

**For D0 version:**

- Test Report No. LIC 12-20-072, dated 15 June 2020

**4. APPLICATION / LIMITATION:**

- 4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships, Offshore Units, Manufacturer's requirements.  
4.2 - Approval valid for steel ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT, AUTO and AUT-IMS.**  
4.3 - The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone.  
4.4 - BUREAU VERITAS Environmental Category, **EC Code: 31C.**  
4.5 - In accordance with IACS UR E22 and as applicable to programmable devices for computer based systems of Category II or III, for each ship application:  
- Ship specific documentation is to be submitted including software documentation and categorization of the computer based system.  
- Inspection and testing before installation onboard is to be performed under the surveillance of the Society.  
4.6 - The HMIGTO are not intended for the presentation of navigation-related information on the bridge of a ship.  
4.7 - The minimum safe distance at which the equipment may be mounted from a standard or a steering magnetic compass is not to be less than 5 m.  
4.8 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 8.  
4.9 - Only Hardware part is covered by this certificate.

**5. PRODUCTION SURVEY REQUIREMENTS:**

- 5.1 - The above products are to be supplied by **Schneider Electric Japan Holdings Ltd.**, Osaka, Japan in compliance with the type described in this certificate.  
5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.  
5.3 - **Schneider Electric Japan Holdings Ltd.**, Osaka, Japan has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.  
5.4 - For information, **Schneider Electric Japan Holdings Ltd.**, Osaka, Japan has declared to Bureau Veritas the following production site(s):

**WUXI PRO-FACE CO., LTD**  
No.516, Xida Road,  
214028 Wuxi  
CHINA

**PT SCHNEIDER ELECTRIC MANUFACTURING BATAM**  
Batamindo Industrial Park  
BLK 1-4 & 208 - Muka Kuning  
Batam Riau, INDONESIA

**6. MARKING OF PRODUCT:**

- Trade name
- Date of manufacture and serial number
- Equipment type number or model identification under which it was type-tested.

**7. OTHERS:**

7.1 - It is **Schneider Electric Japan Holdings Ltd.**, Osaka, Japan responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This Certificate supersedes the following Type Approval Certificates issued by the Society:

- Certificate n° 14167/C1 BV, issue on 22 April 2019

\*\*\* END OF CERTIFICATE \*\*\*