



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA22288M


This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society's Rules.

This certificate is issued to

Applicant:	Schneider Electric Japan Holdings Ltd.
Place of Applicant:	4-4-9 Kitahama, Chuo-Ku, Osaka-Shi, Osaka Japan
Manufacturer 1:	Wuxi Pro-face Co., Ltd
Place of Manufacturing:	No.20 Hanjiang Road, Wuxi New District, Wuxi, Jiangsu, China. 214028
Manufacturer 2:	PT Schneider Electric Manufacturing Batam
Place of Manufacturing:	(GP4000(HMIGTO series)) (JL Beringin Lot 4, 208, 1, 15, 16and 16A) Batamindo Industrial Park, District Muka Kuning, Subdistrict Sungai Beduk, Batam Island, 29433, Indonesia
Product description:	Human Machine Interface
Model:	GP4000 Series (HMIGTO series), GP4100 Series, LT4000M Series
Approval No.:	12A014
Valid until:	28 March 2027

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 27 May 2022.


S. Oishi
General Manager
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

Specification & documents:

1. Particulars: Power supply: DC 24V, DC 12V to 24V (GP4100 Series only)

2. Descriptions:

GP4000 Series (HMIGTO series)

Model		Descriptions
Magelis/Harmony	Pro-face	
HMIGTO6310	PFXGP4601TAD#	12.1" SVGA TFT color LCD, analog touch panel, DC type, with/without coating
	PFXGP4601TMD#	12.1" SVGA TFT color LCD, matrix touch panel, DC type, with/without coating
	PFXGP4603TAD#	12.1" SVGA TFT color LCD, analog touch panel, DC type, isolated RS-485, with/without coating
	PFXGP4501TADW#	10.4" VGA TFT color LCD, analog touch panel, DC type, small memory, with/without coating
HMIGTO5310	PFXGP4501TAD#	10.4" VGA TFT color LCD, analog touch panel, DC type, with/without coating
	PFXGP4501TMD#	10.4" VGA TFT color LCD, matrix touch panel, DC type, with/without coating
	PFXGP4503TAD#	10.4" VGA TFT color LCD, analog touch panel, DC type, isolated RS-485, with/without coating
HMIGTO4310	PFXGP4401TAD#	7.5" VGA TFT color LCD, analog touch panel, DC type, with/without coating
HMIGTO3510	PFXGP4401WADW#	7.0" WVGA Wide TFT color LCD, analog touch panel, DC type, small memory, with/without coating
HMIGTO2310	PFXGP4301TAD#	5.7" QVGA TFT color LCD, analog touch panel, DC type, with/without coating
	PFXGP4303TAD#	5.7" QVGA TFT color LCD, analog touch panel, DC type, isolated RS-485, with/without coating
HMIGTO2300	PFXGP4301TADW#	5.7" QVGA TFT color LCD, analog touch panel, DC type, small memory, with/without coating
HMIGTO1310	PFXGP4201TAD#	3.5" QVGA TFT color LCD, analog touch panel, DC type, with/without coating
	PFXGP4203TAD#	3.5" QVGA TFT color LCD, analog touch panel, DC type, isolated RS-485, with/without coating
HMIGTO1300	PFXGP4201TADW#	3.5" QVGA TFT color LCD, analog touch panel, DC type, small memory, with/without coating

is may be followed by any letter or number that indicates color, PCBA coating, memory size or software combinations.

- To be continued -

2. Descriptions:

GP4100 Series

Model	Descriptions
PFXGP4114T*D#	4.3" TFT color LCD, analog touch panel, DC type, Ethernet type, memory, with coating/without coating
PFXGP4115T*D#	4.3" TFT color LCD, analog touch panel, DC type, RS-232, memory, with coating/without coating
PFXGP4116T*D#	4.3" TFT color LCD, analog touch panel, DC type, RS-422/485, memory, with coating/without coating

* is may be any letter or number that memory size or software combinations.

is may be followed by any letter or number that indicates color, PCBA coating, memory size or software combinations.

LT4000 Series

Model	Descriptions
PFXLM4201TADD\$#	Display module, 3.5" TFT TFT color LCD, analog touch panel, Box module, DC type, With Digital IO
PFXLM4301TADD\$#	Display module, 5.7" TFT TFT color LCD, analog touch panel, Box module, DC type, With Digital IO
PFXLM4B01DD\$#	Box module, DC type, With Digital IO
PFXLM4201TADA\$#	Display module, 3.5" TFT TFT color LCD, analog touch panel, Box module, DC type, With Digital IO and Analog IO
PFXLM4301TADA\$#	Display module, 5.7" TFT TFT color LCD, analog touch panel, Box module, DC type with Digital IO and Analog IO
PFXLM4B01DA\$#	Box module, DC type, With Digital IO
PFXXM4200TP	Display module, 3.5" TFT TFT color LCD, analog touch panel
PFXXM4300TP	Display module, 5.7" TFT TFT color LCD, analog touch panel
PFXZXMADSM31	Accessory of 3m separation cable at display and box
PFXZXMADSM51	Accessory of 5m separation cable at display and box

\$ is may be K or C: Source or Sink output type.

is may be followed by any letter or number that indicates color, PCBA coating, memory size or software combinations.

3. Documentation and Test Reports:

Test Specifications: Doc. No. NSH-11032-TS (2011/10/27)

Type Test Report: Doc. No. NSH-11032-TR (2012.03.06)

GP4000 Series Hardware Manual

Schematic Circuit Diagram: Dwg. No. 10DD-3PE00588B-2 (2011.07.14),

10DD-3PE00594C-1 (2011.09.26), 10DD-3PE00595A-1 (2011.07.14),

10DD-3PE00597A-1 (2011.07.14), 10DD-3PE00599B-1 (2011.07.04),

10DD-3PE00600B-1 (2011.06.08), 10DD-3PE00601B-1 (2011.06.08),

10DD-3PE00602B-1 (2011.06.08)

Outline Drawing: Dwg. No. 10DD-3PT00467-1, 10DD-3PT00468-1, 11DD-3PT00474-1,

11DD-3PT00475-1, 11DD-3PT00476-1, 11DD-3PT00483-1, 11DD-3PT00484-1,

11DD-3PT00485-1, 11DD-3PT00494-1, 11DD-3PT00495-1, 11DD-3PT00497-1,

11DD-3PT00499-1, 11DD-3PT00500-1

Catalog of GP4000 series : Doc. No. WC/IP1110-GP4000ALL-01E12 (2011.10)

Documents for flame retardant (27 Oct., 2011)

Documents of quality control for software: Doc. No. DEV-4104 (2010. 06. 01),

DEV-4601A (2010. 06. 01), DEV-4702 (1997.11.20), DQS-4001G (2011.7.19),

JQA-1367 (2011.08.23), DEV-5504E (2010.06.01)

Document for inspection and test specification for quality control: Doc. No. 11DD-4PL00600-1
(2011/07/26)

List of major parts

Past records of products

Alteration plan, No. 17RT-4RE00222

Technical Document, No. 16RT-4RE00213, 17RT-4RE00233

Test Report, No. 16RT-4VE00137

Test Report, No. 16RT-4VE00138

Test Report, No. LIC 12-16-018

Test Report, No. LIC 12-16-020

Test Plan for Marine NK, Doc. No. 18RT-4RE00250

Test Report, No. 18RT-4VB22244

The relations among all parties for ClassNK type approval

型式申請プラン(NK): Doc. No. 17RT-4RE00222

Test Report, No. LIC 12-20-072 (2020.06.15)

Test Report, No. LIC 12-20-074 (2020.06.15)

Test Report, No. 202015-041 (2020.11.05)

Test Report, No. 202015-431 (2020.11.05)

Test Report, No. 202107-041 (2021.08.13)

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Attached sheet -4/5 to the Certificate No. TA22288M

3. Documentation and Test Reports:

Test Report, No. LIC 12-21-106 (2021.09.08)

Test Report, No. LIC 12-21-107 (2021.09.08)

Test Report, No. LIC 12-21-108 (2021.09.08)

Test Report, No. J21-086-WT (2021.11.24)

Test Report, No. J22-103-WT (2022.03.18)

- To be continued -

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS (IACS UR E10 Rev.7 basis)		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration ±0.7g×1.5 hours)		X
Inclination test		--
Cold test (Temperature 5°C × 2 hours for GP4100 Series) (Temperature -25°C × 2 hours for the others)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		--

2. Approval conditions :

- 1) The product is not allowed to be installed on open decks.
- 2) The product is to be placed inside the metal cabinet.
- 3) Except PFXGP4601TAD, PFXGP4601TMD, PFXGP4603TAD, PFXGP4501TADW, PFXGP4501TAD, PFXGP4501TMD and PFXGP4503TAD, 24V power supply lines are to be protected by Noise Filter of Schaffner Type FN2070-3-06 or equivalent.