



CERTIFICATE NUMBER 20-2057617-PDA
EFFECTIVE DATE 16-December-2020
EXPIRATION DATE 15-December-2025
ABS TECHNICAL OFFICE Yokohama Engineering Services

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD.

located at
OSAKA CITY

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product Monitor, Graphic Panels


**Model Pro-face GP4000 Series, GP4100 Color Series, LT4000 Series, STM6000 Series
Harmony or Margelis HMIGTO Series, HMISTO Color Series, HMISTU Series,
Harmony HMISTU655, HMISTU855, HMIS65, HMIS85, HMIS5T, STM6 Series**

This Product Design Assessment (PDA) Certificate remains valid until 15-December-2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau of Shipping


Motohiro Tsuruura
Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD.

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Tier: 2 - PDA Issued

Product: Monitor, Graphic Panels
Model: Pro-face GP4000 Series, GP4100 Color Series, LT4000 Series, STM6000 Series
Harmony or Magelis HMIGTO Series, HMISTO Color Series, HMISTU Series
Harmony HMISTU655, HMISTU855, HMIS65, HMIS85, HMIS5T, STM6 Series

Endorsements:

Intended Service:

Human Machine Interface for monitoring and control systems in marine applications.

Description:

This product is indicated of propulsion engine shaft revolution.
The product has a digital input, a digital output for monitoring system.
See also the attachment.

Rating:

Rated Input Voltage
24VDC

Surrounding Air Temperature
0 to 55 degree C or less

See also the attachment.

Service Restriction:

1. Unit Certification is not required for Schneider Electric Japan Holdings Ltd. as the original supplier. However, unit certification in accordance with 4-9-3/Table 2 of the Marine Vessel Rules is required by the user to customize this equipment where this equipment is used for Category II or III services in 4-9-3/Table 1 in presence of the Surveyor after assemblage.
2. The tests are to be carried out preferably at the assembled plant before installation on-board. However, if it is impracticable, the tests may be carried out after installation on-board.
3. Failure analysis for safety related functions only and Analysis regarding existence and fulfillment of programming procedures for safety related functions in association with 4-9-3/Table 2 is to be additionally submitted when this component is used for systems assigned as Category III.
4. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. The computer-based system for the subject equipment is assigned to Category II.
3. Evidence is required to be kept by the manufacturer in accordance with 4-9-3/Table 2 of the Rules regarding the computer-based system.

Notes/Drawing/Documentation:

ISO 9001:2015/JIS Q 9001:2015 Certification Doc. No. 3912445.
Drawing No. 17RT-4RE00229, The project plan for Marine certificate, Revision 01, Pages 9, dated 3 July 2017,
Drawing No. 16RT-4RE00213, Technical document, Revision 03, Pages 91, dated 6 October 2017,
Drawing No. 16RT-4RE00214, Technical Document, Revision 02, Pages 63, dated 6 October 2017,
Drawing No. 17RT-4RE00233, Technical Document, Revision 01, Pages 51, dated 19 August 2017,
Drawing No. 17RT-4VE00182, Marine type test Report, Revision 02, Pages 131, dated 20 November 2017, issued by Labotech International Co., Ltd.
Drawing No. NSH-11032-TR, Type Test Report, Revision 00, Pages 284, dated 6 February 2012, issued by Japan

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Certification Corporation,
Drawing No. 16RT-4VE00137, Test Report, Revision 01, Pages 158, dated 4 November 2016, issued by Schneider Automation IOCC-LAB,
Drawing No. 16RT-4VE00138, Test Report, Revision 02, Pages 146, dated 21 August 2017, issued by Schneider Automation IOCC-LAB,
Drawing No. 17RT-4VB21736, Vibration Endurance Test (Marine) and Power Supply Variation Test (Marine), Revision 00, Pages 39, dated 26 January 2017, issued by Schneider Electric Holdings Ltd. Reliability test lab,
Drawing No. 17RT-4VE00153, Test Report, Revision 01, Pages 261, dated 31 January 2017, issued by UL Japan, Inc. Yokowa EMC lab,
Drawing No. EIO0000001133, Magelis HMI GTO for Vijeo Designer User Manual, Revision 06, Pages 140, dated February 2016,
Drawing No. EIO0000001232, Magelis SCU HMI Controller Hardware Guide, Revision 04, Pages 200, dated October 2014,
Drawing No. EIO0000002263, Magelis STO Color Model User Manual, Revision 02, Pages 96, dated October 2016,
Drawing No. GP4000 Series Hardware Manual, GP4000 Series Hardware Manual, Revision 00, Pages 241,
Drawing No. General Documentation_HMISTU Series, General Documentation_HMISTU Series, Revision 00, Pages 200,
Drawing No. Test Report_HMISTU Series, Test Report, Revision 00, Pages 166, dated 12 February 2010, issued by Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd.,
Drawing No. Updated Test Report in 2020 for HMISTU Series, Test Report, Revision 00, Pages 33, dated 21 May 2010, issued by Schneider IOCC-LAB,
Drawing No. A2200071829101001R1, Test Report, Revision 00, Pages 11, dated 28 April 2020, issued by Centre Testing International Pinbiao (Shanghai) Co., Ltd.,
Drawing No. A2200071829101002R1, Test Report, Revision 00, Pages 11, dated 28 April 2020, issued by Centre Testing International Pinbiao (Shanghai) Co., Ltd.,
Drawing No. A2200071829101003R1, Test Report, Revision 00, Pages 11, dated 28 April 2020, issued by Centre Testing International Pinbiao (Shanghai) Co., Ltd.,
Drawing No. A2200071829101004R1, Test Report, Revision 00, Pages 11, dated 28 April 2020, issued by Centre Testing International Pinbiao (Shanghai) Co., Ltd.,
Drawing No. A2200074274101R1, Test Report, Revision 00, Pages 6, dated 28 April 2020, issued by Centre Testing International Pinbiao (Shanghai) Co., Ltd.,
Drawing No. C20-160-WT, Test Report, Revision 00, Pages 17, dated 19 May 2020, issued by Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd.,
Drawing No. Documentation_01_PFXSTM6_HMISTM6, Test Report Configuration description, Revision 00, Pages 162, dated 15 May 2020, issued by Schneider IOCC-LAB,
Drawing No. ETI2020-3-645, Test Report, Revision 00, Pages 33, dated 14 May 2020, issued by Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd.,
Drawing No. HMISTU-655, -855, Test Report, Revision 00, Pages 166, dated 14 May 2020, issued by Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd.,
Drawing No. Product Specification HMISTM6, Product Specification_HMISTM6, Revision 00, Pages 60,
Drawing No. Product Specification PFXSTM6, Product Specification_PFXSTM6, Revision 00, Pages 60,

Terms of Validity:

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Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

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STANDARDS

ABS Rules:

2020 Marine Vessel Rules 1-1-4/7.7 1-1-A3, 1-1-4/A4, 4-9-3 (Category II), 4-9-9/7 and 4-9-9/13;
2020 High-Speed Craft Rules 1-1-4/11.9, 1-1-A2, 1-1-A3, 4-7-8 (Category II), 4-7-9/7 and 4-7-9/15;
2020 Mobile Offshore Units Rules 1-1-4/9.7, 1-1-A2 & A3;

National:

NA

International:

EN 61131-2 Ed.4.0 b:2017,
IEC 61000-6-2 Ed.3.0 b:2016, FCC (Class A),
UL 508, 30 March 2018,
UL 1604, 28 April 1994,

Government:

NA

EUMED:

NA

OTHERS:

IACS UR E10 (Rev.7 Oct 2018) and E22 (Rev.2 June 2016)

Product Design Assessment (PDA) Certificate Attachment for Component Details

PDA Certificate No: 20-2057617-PDA
Entry Date: 16 December 2020
Expire Date: 15 December 2025
Company: Schneider Electric Japan holdings Ltd.
Product/Equipment: Monitor, Graphic Panels
Model: Pro-face GP4000 Series, GP4100 Color Series, LT4000 Series, STM6000 Series
 Harmony or Margelis HMIGTO Series, HMISTO Color Series, HMISTU Series, Harmony HMISTU655, HMISTU855, HMIS65, HMIS85, HMIS5T, STM6 Series

Description

	Pro-face	Descriptions
GP4600 Series	PFXGP4601TAD#	12.1" SVGA TFT color LCD, analog touch panel, DC type
	PFXGP4601TMD#	12.1" SVGA TFT color LCD, matrix touch panel, DC type
	PFXGP4603TAD#	12.1" SVGA TFT color LCD, analog touch panel, DC type, isolated RS-485
GP4500 Series	PFXGP4501TADW#	10.4" VGA TFT color LCD, analog touch panel, DC type, small memory
	PFXGP4501TAD#	10.4" VGA TFT color LCD, analog touch panel, DC type
	PFXGP4501TMD#	10.4" VGA TFT color LCD, matrix touch panel, DC type
	PFXGP4503TAD#	10.4" VGA TFT color LCD, analog touch panel, DC type, isolated RS-485
GP4400 Series	PFXGP4401TAD#	7.5" VGA TFT color LCD, analog touch panel, DC type
	PFXGP4401WADW#	7.0" WVGA Wide TFT color LCD, analog touch panel, DC type
GP4300 Series	PFXGP4301TAD#	5.7" QVGA TFT color LCD, analog touch panel, DC type
	PFXGP4303TAD#	5.7" QVGA TFT color LCD, analog touch panel, DC type
	PFXGP4301TADW#	5.7" QVGA TFT color LCD, analog touch panel, DC type, small memory
GP4200 Series	PFXGP4201TAD#	3.5" QVGA TFT color LCD, analog touch panel, DC type
	PFXGP4203TAD#	3.5" QVGA TFT color LCD, analog touch panel, DC type, isolated RS-485
	PFXGP4201TADW#	3.5" QVGA TFT color LCD, analog touch panel, DC type, small memory
GP4100 Color Series	PFXGP4114T*D#	4.3" TFT color LCD, analog touch panel, DC type, Ethernet type
	PFXGP4115T*D#	4.3" TFT color LCD, analog touch panel, DC type, RS-232
	PFXGP4116T*D#	4.3" TFT color LCD, analog touch panel, DC type, RS-422/485
LT4200 Series	PFXLM4201TADD\$#	3.5" display and box module with DIO, DC type
	PFXLM4201TADA\$#	3.5" display and box module with DIO and AIO, DC type
LT4300 Series	PFXLM4301TADD\$#	5.7" display and box module with DIO, DC type
	PFXLM4301TADA\$#	5.7" display and box module with DIO and AIO, DC type
Box module	PFXLM4B01DD\$#	Box module with DIO, DC type
	PFXLM4B01DA\$	Box module with DIO and AIO, DC type
Display module	PFXXM4200TP	3.5" display module
	PFXXM4300TP	5.7" display module
Cable	PFXZXMADSM31	Accessory of 3m separation cable at display and box
	PFXZXMADSM51	Accessory of 5m separation cable at display and box
STM6000 Series	PFXSTM6200WAD#	4" display and box module
	PFXSTM6400WAD#	7" display and box module
Rear Module	PFXSTM6B#	Rear Module
	PFXSTM6B00D#	Rear Module with DIN rail adapter
Display module	PFXSTM62TP#	4" display Module
	PFXSTM64TP#	7" display Module
Cable	PFXZCM6SM3	Accessory of 3m separation cable at display and box
	PFXZCM6SM5	Accessory of 5m separation cable at display and box
	PFXZCM6SM10	Accessory of 10m separation cable at display and box
DIN rail Adapter	PFXZCM6DSA	DIN rail adapter

* 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.

\$ Source or Sink output type.

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Description

	Magelis	Descriptions
HMIGTO6 Series	HMIGTO6310#	12.1" SVGA TFT color LCD, analog touch panel, DC type
HMIGTO5 Series	HMIGTO5310#	10.4" VGA TFT color LCD, analog touch panel, DC type
HMIGTO4 Series	HMIGTO4310#	7.5" VGA TFT color LCD, analog touch panel, DC type
HMIGTO3 Series	HMIGTO3510#	7.0" WVGA Wide TFT color LCD, analog touch panel, DC type
HMIGTO2 Series	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
HMIGTO1 Series	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
HMISTO Series	HMISTO735#	4.3" TFT color LCD, analog touch panel, DC type, Ethernet type
	HMISTO705#	4.3" TFT color LCD, analog touch panel, DC type, RS-232
	HMISTO715#	4.3" TFT color LCD, analog touch panel, DC type, RS-422/485
HMISCU6 Series	HMISCU6A5#	3.5" display and box module with DIO, DC type
	HMISCU6B5#	3.5" display and box module with DIO and AIO, DC type
HMISCU8 Series	HMISCU8A5#	5.7" display and box module with DIO, DC type
	HMISCU8B5#	5.7" display and box module with DIO and AIO, DC type
HMISTU Series	HMISTU665#	3.5" display and box module
	HMISTU855#	5.7" display and box module
Box module	HMISAC#	Box module with DIO, DC type
	HMISBC#	Box module with DIO and AIO, DC type
	HMIS5T#	Box module
Display module	HMIS65	3.5" display module
	HMIS85	5.7" display module
Cable	HMIZSURDP	Accessory of 3m separation cable at display and box
	HMIZSURDP5	Accessory of 5m separation cable at display and box
STM6 Series	HMISTM6200#	4" display and box module
	HMISTM6400#	7" display and box module
Rear Module	HMISTM6B#	Rear Module
	HMISTM6BOX#	Rear Module with DIN rail adapter
Display module	HMISTM62#	4" display Module
	HMISTM64#	7" display Module
Cable	HMIZM6RDP3	Accessory of 3m separation cable at display and box
	HMIZM6RDP5	Accessory of 5m separation cable at display and box
	HMIZM6RDP10	Accessory of 10m separation cable at display and box
DIN rail Adapter	HMIZM6DSA	DIN rail adapter

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 Harmony HMISTU655, HMISTU855, HMIS65, HMIS85, HMIS5T, STM6 Series

Ratings and General Specification

	GP4000 Series	GP4100 Color Series	LT4000 Series
Rated Input Voltage	24Vdc	12-24Vdc	24Vdc
Input Voltage Limits	19.2-28.8Vdc	10.8-28.8Vdc	19.2-28.8Vdc
Power Consumption	GP4600 Series: 17W or less GP4500 Series: 17W or less GP4400 Series: 12W or less GP4300 Series: 10.5W or less GP4200 Series: 9.6W or less	8.1W or less	LT4200 Series: 10W or less LT4300 Series: 13W or less
Operated Ambient Air Temperature	0 to 55°C 0 to 50°C (PFXGP4501TADW#, PFXGP4401WADW#, PFXGP4301TADW#, PFXGP4201TAD#, PFXGP4203TAD#, PFXGP4201TADW#)	0 to 50°C	0 to 50°C
Storage Temperature	-20 to 60°C	-20 to 60°C	-20 to 60°C
External Dimensions	GP4600 Series: W315xH241xD56mm GP4500 Series: W272.5xH214.5xD57.0mm (PFXGP4501TADW#: W315xH241xD56mm) GP4400 Series: W218xH173xD60mm GP4300 Series: W169.5xH137xD59.5mm GP4200 Series: W132xH106xD42mm	W124.9xH90.4xD38.8mm	LT4200 Series: W128xH102xD75.0mm LT4300 Series: W163xH129.4xD76.3mm
Weight	GP4600 Series: 2.5kg or less GP4500 Series: 2.0kg or less GP4400 Series: 1.2kg or less GP4300 Series: 0.8kg or less GP4200 Series: 0.4kg or less	0.22kg or less	LT4200 Series: 0.53kg or less LT4300 Series: 0.78kg or less

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Ratings and General Specification

	STM6000 Series
Rated Input Voltage	24Vdc
Input Voltage Limits	19.2-28.8Vdc
Power Consumption	STM6200WA Series: 1.0W or less STM6400WA Series: 3.6W or less PFXSTM6B Series: 6.8W or less
Operated Ambient Air Temperature	0 to 50°C
Storage Temperature	-20 to 60°C
External Dimensions	STM6200WA Series: W140.4xH101.1xD13.9mm STM6400WA Series: W201.2xH137.2xD17.1mm PFXSTM6B Series: W145.6xH108.23xD41.4mm
Weight	STM6200WA Series: 0.22 kg or less STM6400WA Series: 0.49 kg or less PFXSTM6B Series: 0.27 kg or less

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 Harmony HMISTU655, HMISTU855, HMIS65, HMIS85, HMIS5T, STM6 Series

Ratings and General Specification

	HMIGTO Series	HMISTO Color Series	HMISCU Series
Rated Input Voltage	24Vdc	12-24Vdc	24Vdc
Input Voltage Limits	19.2-28.8Vdc	10.8-28.8Vdc	19.2-28.8Vdc
Power Consumption	HMIGTO6 Series: 17W or less HMIGTO5 Series: 17W or less HMIGTO4 Series: 12W or less HMIGTO3 Series: 12W or less HMIGTO2 Series: 10.5W or less HMIGTO1 Series: 9.6W or less	8.1W or less	HMISCU6 Series: 10W or less HMISCU8 Series: 13W or less
Operated Ambient Air Temperature	0 to 55°C 0 to 50°C (HMIGTO3510#, HMIGTO2300#, HMIGTO1310#, HMIGTO1300#)	0 to 50°C	0 to 50°C
Storage Temperature	-20 to 60°C	-20 to 60°C	-20 to 60°C
External Dimensions	HMIGTO6 Series: W315xH241xD56mm HMIGTO5 Series: W272.5xH214.5xD57.0mm HMIGTO4 Series: W218xH173xD60mm HMIGTO3 Series: W218xH173xD60mm HMIGTO2 Series: W169.5xH137xD59.5mm HMIGTO1 Series: W132xH106xD42mm	W124.9xH90.4xD38.8mm	HMISCU6 Series: W128xH102xD75.0mm HMISCU8 Series: W163xH129.4xD76.3mm
Weight	HMIGTO6 Series: 2.5kg or less HMIGTO5 Series: 2.0kg or less HMIGTO4 Series: 1.2kg or less HMIGTO3 Series: 1.2kg or less HMIGTO2 Series: 0.8kg or less HMIGTO1 Series: 0.4kg or less	0.22kg or less	HMISCU6 Series: 0.53kg or less HMISCU8 Series: 0.78kg or less

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Ratings and General Specification

	HMISTU Series	STM6 Series
Rated Input Voltage	24Vdc	24Vdc
Input Voltage Limits	20.4-28.8Vdc	19.2-28.8Vdc
Power Consumption	HMISTU655 Series: 6.5W or less HMISTU855 Series: 6.8W or less	STM6200 Series: 1.0W or less STM6400 Series: 3.6W or less HMISTM6B Series: 6.8W or less
Operated Ambient Air Temperature	0 to 50°C	0 to 50°C
Storage Temperature	-20 to 60°C	-20 to 60°C
External Dimensions	HMISTU655 Series: W118xH98.15xD56.3mm HMISTU855 Series: W163xH129.4xD56.5mm	HMISTM6200 Series: W140.4xH101.1xD13.9mm HMISTM6400 Series: W201.2xH137.2xD17.1mm HMISTM6B Series: W145.6xH108.23xD41.4mm
Weight	HMISTU655 Series: 0.25kg or less HMISTU855 Series: 0.25kg or less	HMISTM6200 Series: 0.22 kg or less HMISTM6400 Series: 0.49 kg or less HMISTM6B Series: 0.27 kg or less