



CERTIFICATE NUMBER
18-YO1702045-PDA

DATE
22 Jan 2018

ABS TECHNICAL OFFICE
Yokohama Engineering Services

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of
SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD.

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 SP5000 Series and FP5000 Series Magelis HMIGTU Series and
iDisplay Series**

This Product Design Assessment (PDA) Certificate 18-YO1702045-PDA, dated 22/Jan/2018 remains valid until 21/Jan/2023 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING


Motohiro Tamura
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 the terms and conditions as contained in 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 SP5000 Series and FP5000 Series
Magelis HMIGTU Series and iDisplay Series

Intended Service:

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

Description:

Pro-face SP5000 Series and Magelis GTU Series: The 7 types of displays and 2 types of boxes may be used in any of the 14 combinations for use.

Pro-face FP5000 Series and Magelis iDisplay Series: Display stand alone as default specification.

Rating:

Rated Input Voltage
12 to 24VDC

Surrounding Air Temperature

0 to 60 degree C or less

Service Restriction:

1. Unit Certification is required for Schneider Electric Japan Holdings Ltd. as the original supplier. Unit certification in accordance with 4-9-3/Table 2 of the Steel 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. 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.
2. 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.

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:

1. Drawing No. 17RT-4RE00245, Technical Document, Revision 02, Pages 149, dated 27 November 2015,
2. Drawing No. 17RT-4RE00246, Technical Document, Revision 02, Pages 21, dated 27 November 2015,
3. Drawing No. 17RT-4RE00247, Technical Document, Revision 01, Pages 31, dated 13 December 2017,
4. Drawing No. 17RT-4RE00248, Quality document, Revision 01, Pages 219, dated 13 December 2017,
5. Drawing No. 17RT-4VE00183, Test Report, Revision 01, Pages 152, dated 13 December 2017, issued by Schneider Electric Japan Holdings Ltd.,
6. Drawing No. 15RT-4VE00101, Test Report HMI system 1, Revision 02, Pages 51, dated 27 November 2015, issued by Schneider Electric Japan Holdings Ltd.,
7. Drawing No. 15RT-4VE00102, Test Report HMI system 2, Revision 02, Pages 51, dated 27 November 2015, issued by Schneider Electric Japan Holdings Ltd.,
8. Drawing No. 15RT-4VE00103, Test Report HMI system 3, Revision 02, Pages 51, dated 27 November 2015, issued by Schneider Electric Japan Holdings Ltd.,
9. Drawing No. 15RT-4VE00104, Test Report HMI system 4, Revision 02, Pages 51, dated 27 November 2015, issued by Schneider Electric Japan Holdings Ltd.,
10. Drawing No. 15RT-4VE00105, Test Report HMI system 5, Revision 02, Pages 51, dated 27 November 2015, issued by Schneider Electric Japan Holdings Ltd.,

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11. Drawing No. 15RT-4VE00106, Test Report HMI system 6, Revision 02, Pages 51, dated 27 November 2015, issued by Schneider Electric Japan Holdings Ltd.,
12. Drawing No. 15RT-4VE00107, Test Report HMI system 7, Revision 02, Pages 51, dated 27 November 2015, issued by Schneider Electric Japan Holdings Ltd.,
13. Drawing No. 15RT-4VE00108, Test Report HMI system 8, Revision 02, Pages 51, dated 27 November 2015, issued by Schneider Electric Japan Holdings Ltd.,
14. Drawing No. 15RT-4VE00109, Test Report HMI system 9, Revision 02, Pages 51, dated 27 November 2015, issued by Schneider Electric Japan Holdings Ltd.,
15. Drawing No. 15RT-4VE00110, Test Report HMI system 10, Revision 02, Pages 51, dated 27 November 2015, issued by Schneider Electric Japan Holdings Ltd.,
16. Drawing No. 15RT-4VE00111, Test Report HMI system 11, Revision 02, Pages 50, dated 27 November 2015, issued by Schneider Electric Japan Holdings Ltd.,
17. Drawing No. 15RT-4VE00112, Test Report HMI system 12, Revision 02, Pages 50, dated 27 November 2015, issued by Schneider Electric Japan Holdings Ltd.,

Terms of Validity:

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Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

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STANDARDS

ABS Rules:

2018 Steel Vessel Rules 1-1-4/7.7, 1-1-A3 & A4, 4-9-3 (Category II), 4-9-8/13;
2018 Mobile Offshore Drilling Units Rules 1-1-4/9.7, 1-1-A2 & A3, 4-3-4/5;
2018 Steel Vessels Under 90 Meters in Length 1-1-4/7.7, 1-1-A3 & A4, 4-7-2/9;
2018 Offshore Support Vessels 1-1-4/7.7, 1-1-A3 & A4, 4-9-3 (Category II), 4-9-8/13;
2018 High-Speed Craft 1-1-4/11.9, 1-1-A2 & A3, 4-7-8 (Category II), 4-7-9/15;

National:

NA

International:

NA

Government:

NA

EUMED:

NA

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OTHERS:

IACS UR E10 (Rev.6 Oct 2014) and E22 (Rev.2 June 2016)

Product Design Assessment (PDA) Certificate Attachment for Component Details

PDA Certificate No: 18-YO1702045-PDA
Effective Date: 22 January 2018
Issue Date: 22 January 2018
Expire Date: 21 January 2023
Company: Schneider Electric Japan Holdings Ltd.
Product/Equipment: Monitor, Graphic Panels
Model: Pro-face SP5000 Series and FP5000 Series
Magelis HMIGTU Series and iDisplay Series

Description (Pro-face SP5000 Series and FP5000 Series)

Model	Descriptions
PFXSP5500TPD#	Display unit that enables to use with box unit, 10.4-inch TFT, 16M colors, SVGA 800 x 600 pixels, Analog Touch Panel(Multi touch), Front USB A/mini-B I/F x 1 each, DC12-24V
PFXSP5600TPD#	Display unit that enables to use with box unit, 12.1-inch TFT, 16M colors, XGA 1024 x 768 pixels, Analog Touch Panel(Multi touch), Front USB A/mini-B I/F x 1 each, DC12-24V
PFXSP5660TPD#	Display unit that enables to use with box unit, 12.1-inch TFT, 16M colors, XGA 1024 x 768 pixels, Analog Touch Panel(Multi touch), Wireless LAN, Front USB A/mini-B I/F x 1 each, DC12-24V
PFXSP5700TPD#	Display unit that enables to use with box unit, 15-inch TFT, 16M colors, XGA 1024 x 768 pixels, Analog Touch Panel(Multi touch), Front USB A/mini-B I/F x 1 each, DC12-24V
PFXSP5400WAD#	Display unit that enables to use with box unit, 7.0-inch Wide TFT, WVGA 800 x 480 pixels, Analog Touch Panel, DC12-24V
PFXSP5500WAD#	Display unit that enables to use with box unit, 10.1-inch Wide TFT, WXGA 1280 x 768 pixels, Analog Touch Panel, DC12-24V
PFXSP5600WAD#	Display unit that enables to use with box unit, 12.1-inch Wide TFT, WXGA 1280 x 768 pixels, Analog Touch Panel, DC12-24V
PFXSP5B10#	Box unit that enables to use with display unit, Ethernet I/F x 2, COM I/F x 2, USB A I/F x 2, USB mini-B I/F, SD Card I/F x 2, AUX I/F, Expansion Unit I/F, DC12V from display unit
PFXSP5B40#	Box unit that enables to use with display unit, Ethernet I/F x 2, COM I/F x 2, USB A I/F x 3, USB mini-B I/F, CFast Card I/F x 2, SD Card I/F, AUX I/F, Expansion Unit I/F, DVI-D Out I/F, Audio In I/F, DC12V from display unit
PFXFP5600TPD#	Flat panel display unit, 12.1-inch TFT, 16M colors, XGA 1024 x 768 pixels, Analog Touch Panel(Multi touch), Front USB A x 1, DVI-D In I/F x 1, USB B I/F x 1, DC12-24V
PFXFP5700TPD#	Flat panel display unit, 15-inch TFT, 16M colors, XGA 1024 x 768 pixels, Analog Touch Panel(Multi touch), Front USB A I/F x 1, DVI-D In I/F x 1, USB B I/F x 1, DC12-24V

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

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Company: Schneider Electric Japan Holdings Ltd.

Product/Equipment: Monitor, Graphic Panels

Model: Pro-face SP5000 Series and FP5000 Series

Magelis HMIGTU Series and iDisplay Series

Ratings and General Specifications (Pro-face SP5000 Series and FP5000 Series)

	Rated Input Voltage	Input Voltage Limits	Power Consumption	Surrounding Air Temperature	Surrounding Air Humidity	External Dimensions	Weight	Structure
PFXSP5500TPD#	12-24 V DC	10.8-28.8 Vdc	50W or less	0...60 °C (32...140 °F)	10...90%RH (non-condensing)	W272.5 x H214.5 x D67 mm	2.7 kg or less	IP65F **
PFXSP5600TPD#			56W or less			W315 x H241 x D67 mm	3 kg or less	IP67F **
PFXSP5660TPD#			58W or less			W315 x H241 x D67 mm	3 kg or less	IP66F ***
PFXSP5700TPD#			57W or less			W397 x H296 x D67 mm	4.5 kg or less	*
PFXSP5400WAD#			41W or less			W203.6 x H148.6 x D36 mm	1.2 kg or less	IP66F
PFXSP5500WAD#			43W or less			W268.5 x H198.5 x D67 mm	2.5 kg or less	IP67F
PFXSP5600WAD#			45W or less			W308.5 x H230.5 x D67 mm	3 kg or less	*
PFXSP5B10#	12 V DC	-	20W or less			W188 x H131 x D45 mm	0.9 kg or less	IP20
	Power from Display unit							
PFXSP5B40#	12 V DC	-	28W or less			W188 x H131 x D45 mm	0.9 kg or less	IP20
	Power from Display unit							
PFXFP5600TPD#	12-24 V DC	10.8-28.8 Vdc	17W or less			W315 x H241 x D67 mm	3.9 kg or less	IP65F **
PFXFP5700TPD#			21W or less			W397 x H296 x D67 mm	5.2 kg or less	IP67F **
								IP66F ***

* on the front panel when properly installed in an enclosure.

** When using a factory-installed Front USB Cover (without screw type)

*** When using a Front USB Cover as an option (with screw type)

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Company: Schneider Electric Japan Holdings Ltd.
Product/Equipment: Monitor, Graphic Panels
Model: Pro-face SP5000 Series and FP5000 Series
 Magelis HMIGTU Series and iDisplay Series

Description (Magelis HMIGTU Series and iDisplay Series)

Model	Descriptions
HMIDT542#	Display unit that enables to use with box unit, 10.4-inch TFT, 16M colors, SVGA 800 x 600 pixels, Analog Touch Panel(Multi touch), Front USB A/mini-B I/F x 1 each, DC12-24V
HMIDT642#	Display unit that enables to use with box unit, 12.1-inch TFT, 16M colors, XGA 1024 x 768 pixels, Analog Touch Panel(Multi touch), Front USB A/mini-B I/F x 1 each, DC12-24V
HMIDT643#	Display unit that enables to use with box unit, 12.1-inch TFT, 16M colors, XGA 1024 x 768 pixels, Analog Touch Panel(Multi touch), Wireless LAN, Front USB A/mini-B I/F x 1 each, DC12-24V
HMIDT732#	Display unit that enables to use with box unit, 15-inch TFT, 16M colors, XGA 1024 x 768 pixels, Analog Touch Panel(Multi touch), Front USB A/mini-B I/F x 1 each, DC12-24V
HMIDT351#	Display unit that enables to use with box unit, 7.0-inch Wide TFT, WVGA 800 x 480 pixels, Analog Touch Panel, DC12-24V
HMIDT551#	Display unit that enables to use with box unit, 10.1-inch Wide TFT, WXGA 1280 x 768 pixels, Analog Touch Panel, DC12-24V
HMIDT651#	Display unit that enables to use with box unit, 12.1-inch Wide TFT, WXGA 1280 x 768 pixels, Analog Touch Panel, DC12-24V
HMIG3U#	Box unit that enables to use with display unit, Ethernet I/F x 2, COM I/F x 2, USB A I/F x 2, USB mini-B I/F, SD Card I/F x 2, AUX I/F, Expansion Unit I/F, DC12V from display unit
HMIG5U#	Box unit that enables to use with display unit, Ethernet I/F x 2, COM I/F x 2, USB A I/F x 3, USB mini-B I/F, CFast Card I/F x 2, SD Card I/F, AUX I/F, Expansion Unit I/F, DVI-D Out I/F, Audio In I/F, DC12V from display unit
HMIDID64DTD1#	Flat panel display unit, 12.1-inch TFT, 16M colors, XGA 1024 x 768 pixels, Analog Touch Panel(Multi touch), Front USB A x 1, DVI-D In I/F x 1, USB B I/F x 1, DC12-24V
HMIDID73DTD1#	Flat panel display unit, 15-inch TFT, 16M colors, XGA 1024 x 768 pixels, Analog Touch Panel(Multi touch), Front USB A I/F x 1, DVI-D In I/F x 1, USB B I/F x 1, DC12-24V

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Product/Equipment: Monitor, Graphic Panels

Model: Pro-face SP5000 Series and FP5000 Series

Magelis HMIGTU Series and iDisplay Series

Ratings and General Specifications (Magelis HMIGTU Series and iDisplay Series)

	Rated Input Voltage	Input Voltage Limits	Power Consumption	Surrounding Air Temperature	Surrounding Air Humidity	External Dimensions	Weight	Structure	
HMIDT542#	12-24 V DC	10.8-28.8 Vdc	50W or less	0...60 °C (32...140 °F)	10...90%RH (non-condensing)	W272.5 x H214.5 x D67 mm	2.7 kg or less	IP67F	
HMIDT642#			56W or less			W315 x H241 x D67 mm	3 kg or less	IP66F	*
HMIDT643#			58W or less			W315 x H241 x D67 mm	3 kg or less		
HMIDT732#			57W or less			W397 x H296 x D67 mm	4.5 kg or less		
HMIDT351#			41W or less			W203.6 x H148.6 x D36 mm	1.2 kg or less	IP66F	
HMIDT551#			43W or less			W268.5 x H198.5 x D67 mm	2.5 kg or less	IP67F	*
HMIDT651#			45W or less	W308.5 x H230.5 x D67 mm	3 kg or less				
HMIG3U#	12 V DC Power from Display unit	-	20W or less			W188 x H131 x D45 mm	0.9 kg or less	IP20	
HMIG5U#	12 V DC Power from Display unit	-	28W or less			W188 x H131 x D45 mm	0.9 kg or less	IP20	
HMIDID64D1D1#	12-24 V DC	10.8-28.8 Vdc	17W or less			W315 x H241 x D67 mm	3.9 kg or less	IP67F	
HMIDID73D1D1#			21W or less			W397 x H296 x D67 mm	5.2 kg or less	IP66F	

* on the front panel when properly installed in an enclosure.

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