



Marine & Offshore

Certificate number: 19180/D0 BV

File number: AP 3775

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

Touch-sensitive graphic terminals type: Harmony or Magelis HMISTU, HMISCU**5
Harmony STM6, Pro-face STM6000

Requirements:

BV Rules for the Classification of Steel Ships.

EC Code: 31

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: 09 Aug 2027

For Bureau Veritas Marine & Offshore,

At BV KOBE, on 09 Aug 2022,

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 4 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

1.1 - Technical Specification:

Touch-sensitive graphic terminals type:

Table 1/2-	Touch-sensitive graphic terminals type: Harmony STM6, Pro-face STM6000	
Commercial Reference		
Pro-face brand	Schneider brand	Description
PFXSTM6200WAD	HMISTM6200	4" display and box module
PFXSTM6400WAD	HMISTM6400	7" display and box module
PFXSTM6B	HMISTM6B	Rear Module
PFXSTM62TP	HMISTM62	4" display module
PFXSTM64TP	HMISTM64	7" display module
PFXZCM6SM3	HMIZM6RDP3	Cable 3 m
PFXZCM6SM5	HMIZM6RDP5	Cable 5 m
PFXZCM6SM10	HMIZM6RDP10	Cable 10 m
PFXZCM6DSA	HMIZM6DSA	DIN rail adapter
PFXSTM6B00D	HMISTM6BOX	Rear module & DIN rail adapter

Table 2/2-	Touch-sensitive graphic terminals type: Harmony or Magelis HMISTU, HMISCU**5	
Commercial Reference	Description	
HMISTU655	Display 3"5 QVGA Touch Screen, 24V DC supply, TFT screen 65536 colors, serial line on RS232/RS485-RJ45 port, one Ethernet 10/100BaseT RJ45 port, two USB ports mini-B device & type A host.	
HMISTU855	Display 5"7 QVGA Touch Screen, 24V DC supply, TFT screen 65536 colors, serial line on RS232/RS485-RJ45 port, one Ethernet 10/100BaseT RJ45 port, two USB ports mini-B device & type A host.	
HMIS65	Front module of HMISTU655. Display 3"5 QVGA Touch Screen, TFT screen 65536 colors.	
HMIS85	Front module of HMISTU855. Display 5"7 QVGA Touch Screen, TFT screen 65536 colors.	
HMIS5T	Rear Module of HMIS 65-85. 24V DC supply, serial line on RS232 / RS485 - RJ45 port, one Ethernet 10/100Base RJ45 port, two USB ports mini-B device & type A host.	
HMISCU6A5 HMISCU8A5 HMISCU6B5 HMISCU8B5	3"5 HMI Controller Machine Control 5"7 HMI Controller Machine Control 3"5 HMI Controller Process Control 5"7 HMI Controller Process Control	
HMISAC HMISBC	Rear module Machine Control Rear module Process Control	
HMIZSURDP HMIZSURDP5	Display remote 3 meters Display remote 5 meters	
HMIZSDIO	Terminal block for Panel SCU	

Note : All model References may be followed by "C" when conformal coated and any additional letter for cosmetic purposes, memory size or software combinations.

1.2 - Firmware Specification:

HMISTU Series	Firmware Version: 8.0
HMISCU Series	Firmware Version: 7.0
Harmony STM6 Series	Firmware Version: 1.0
Pro-face STM6000 Series	Firmware Version: 1.0

2. DOCUMENTS AND DRAWINGS:

- Manufacturer's user manual ref. 35010372 05
- Magelis SCU Small HMI controllers Ref.: DIA5ED2130505EN - V3.0, dated Mar 2015
- Magelis SCU Hardware Guide Ref.: EIO0000001232, dated Oct 2014
- Instruction Sheet Ref.: 35015283 10, dated Aug 2015

For D0 version:

- Software Design procedure, No. DEV-4403 B, dated 2020.12.08
- Software evaluation procedure, No. DEV-4702 C , dated 2020.12.08.
- Software revision histories, dated 2022/08/01
- STM600 Series hardware manual STM6000-MM01-EN_00 dated 08/2020
- Harmony STM6 user manual EIO0000004129_00 dated 08/2020
- Firmware revision history, dated 2022-08-03.

3. TEST REPORTS:**According to Schneider test reports:**

Test reports N°	Dates of issuance
0510S01C, 0510S02C 0510S03C	31/12/2005 14/08/2006
0510S01V, 0510S02V 0510S05V, 0510S06V 0510S07V, 0510S10V 0510S08V 0510S12V, 0510S14V, 0510S15V, 0510S16V 0510S10V, 0510S17V	29/09/2005 21/02/2006 12/12/2005 21/11/2005 02/08/2006 31/10/2006
2006-0412-00, 2006-0412-01, 2006-0412-02, 2006-0412-03, 2006-0412-04, 2006-0412-05	25/07/2006 "-"
2006-134-01A, 2006-134-02A, 2006-134-03A 2006-134-04A	24/08/2006 "-"
0510S11V+ R0510281C1-E 2006-134-05, 2006-134-06, 2006-134-07 2006-134-08	31/12/2005 10/11/2006 "-"
0510S04V +R0510281C2-E 0510S09V + R0510281C1-E 200604-3056C-R1E 0510S18E+ 200604-3056C-R2E, 200604-3056C-R3E, 200604-3056C-R4E	31/12/2005 19/12/2005 10/07/2006 11/03/2006 10/07/2006 "-"
A09065WT0104 + 0908M01V A10-035-WT + 1004M01V	12/02/2010 11/08/2009 08/10/2010 28/04/2010

Schneider Electric:

- Product Test Synthesis Ref.: 201214-093, dated Jun 2014
- High frequency immunity Test Report Ref.: 201214-042, dated 2013.03.11
- Mechanical validation Test Report Ref.: 201214-063, dated 2014.05.29
- Climatic Test Report Ref.: 201214-073, dated 2014.05.29
- Low frequency immunity Test Report Ref.: 201214-083, dated 2014.05.29
- Electromagnetic emission Test Report Ref.: 201214-443, dated 2014.06.04

STIEE:

- Commission Test Ref.: ET2014-5-619, dated 2014-05-14

For D0 version:

- Radiated Emission Test, No. J21-086-WT, dated 2021.11.24
- Radiated Emission Test, No. C20-156-WT, dated 2020.05.20.
- Electromagnetic field test, No. IOCC-LAB-TF-028, v 3.4, dated 2019.04.21.
- Test Report Configuration, No. IOCC-LAB-TF-038, v3.1, dated 2020.11.05
- Test Report No. 202002-431, dated 2020.5.15.
- Test Report No. 202002-041, dated 2020.05.18.
- Test Report No. 202002-042, dated 2020.06.18
- Test Report No. 202002-051, dated 2020.05.14
- Test Report No. 202002-061, dated 2020.05.13

- Test Report No. 202002-071, dated 2020.06.19
- Test Report No. 202002-081, dated 2020.06.19
- Test Report No. 202002-451, dated 2020.06.18
- Radiated Emission, Test Report No. C20-160-WT, dated 2020.05.19
- Radaited Emission and Electromagnetic field test, No. ETI2020-3-643, dated 2020.05.14
- IP test report, No. A2200071829101001R1, dated April 28, 2020.
- IP test report, No. A2200071829101002R1, dated April 28, 2020.
- IP test report, No. A2200071829101003R1, dated April 28, 2020.
- IP test report, No. A2200071829101004R1, dated April 28, 2020.

4. APPLICATION / LIMITATION:

- 4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships and to the Manufacturer's requirements.
- 4.2 - Approval also valid for ships to be granted with the notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
- 4.3 - In order to lower the conducted and radiated emissions, the equipment listed in clause I shall be fitted in appropriate shielded cabinets and used with screened cables, as referred to in Instruction Sheet N° 35015283 01.
- 4.4 - In order to lower the conducted emissions, the power supplies of equipment listed in clause I shall be fitted with appropriate on line filters, as referred to in Instruction Sheet N° 35015283 01.
- 4.5 - An isolating DC/DC converter is to be added to those equipment whose power supply is grounded by design. The converter must be type approved.
- 4.6 - XBTGT11xx and HMISTU fulfill the EMC requirements for installation either in the Bridge and Deck Zone.
- 4.7 - BUREAU VERITAS Environmental Category, **EC Code: 31**
- 4.8 - Only Hardware and Firmware / Software successfully tested together in compliance with the regulations as referred to in cover page, according to the declaration of the manufacturer are covered by this certificate.
- 4.9 - Any modification of the hardware, firmware or software having an impact on the product performance or functionality has to be validated with type testing.
- 4.10 - 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.
- 4.11 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev8.

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The above products are to be supplied by **Schneider Electric Japan Holdings Ltd.** 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.
- 5.3 - **Schneider Electric Japan Holdings Ltd.** 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.** has declared to Bureau Veritas the following production site(s) :

Wuxi Pro-Face Co., Ltd.
No.20, Hanjiang Road,
National Hi-Tech Industrial Deve. Zone,
Wuxi,
214028 Wuxi
CHINA

PT Schneider Electric Manufacturing Batam
Batamindo Industrial Park
BLK 1 - 4 & 208 - Muka Kunting
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.** 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 Type Approval Certificate No.: 19180/C0 BV issued on 17 Aug 2016 by the Society.

*** END OF CERTIFICATE ***