



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx INE 18.0011X**

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[Certificate history](#):

Status: **Current**

Issue No: 1

[Issue 0 \(2018-04-24\)](#)

Date of Issue: 2023-01-06

Applicant: **Schneider Electric Japan Holdings Ltd**
4-4-9 Kitahama, Chuo-ku
Osaka 541-0041
Japan

Equipment: **GP4100 graphic terminal type PFXGP411...***

Optional accessory:

Type of Protection: **nA nC tc**

Marking: Ex nA nC IIC T5 Gc
Ex tc IIIC T100°C Dc
0°C ≤ Ta ≤ 50°C

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)

ATMOSPHERES EXPLOSIVES
Certifié IECEx
INERIS
IECEx certified
EXPLOSIVE ATMOSPHERES



Thierry HOUEx
Ex Certification Officer

2023-01-06

Signé électroniquement
Digitally signed by
Thierry HOUEx
Ex Certification Officer
Délégué Certification



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Institut National de l'Environnement Industriel et des Risques
BP n°2 / Parc Technologique ALATA
F-60550 Verneuil-en-Halatte
France

INERIS
controlling risks
for sustainable development



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Manufacturer: **Schneider Electric Japan Holdings Ltd.**
4-4-9 Kitahama, Chuo-ku
Osaka 541-0041
Japan

Manufacturing locations: **WUXI Pro-face Co., Ltd**
No.516 Xida Road
Wuxi, Jiangsu 214111
China

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-15:2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements
other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[FR/INE/ExTR18.0016/00](#)

Quality Assessment Report:

[FR/INE/QAR16.0001/12](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

GP4100 graphic terminals type PFXGP411...* are user interfaces which include a touch-screen display and a printed circuit board.

The terminals are non-sparking during conditions of normal operation and are protected by Types of Protection Ex nA and Ex tc, except the resistive touch panels which are protected by Ex nC.

For a use in zone 2 for Gas application, the box unit shall be placed in an enclosure EPL Gc and the display unit onto an enclosure EPL Gc insuring a minimal ingress protection IP54.

For a use in zone 22 for Dust application, the box unit shall be placed in an enclosure EPL Dc and the display unit onto an enclosure EPL Dc insuring a minimal ingress protection IP6X.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- GP4100 graphic terminals type PFXGP411...* shall be mounted in an additional enclosure EPL Gc insuring a minimal protection level IP54 for a Gas application, and in an enclosure EPL Dc insuring a minimal ingress protection IP6X for Dust application in accordance with the requirements of IEC 60079-0:2011, IEC 60079-15:2010 and IEC 60079-31:2013 standards.
- The enclosure equipped with GP4100 graphic terminals type PFXGP411...* shall not be opened when an explosive atmosphere is present and shall be used in an environment of not more than Pollution Degree 2 as defined in IEC 60664-1. (* See table of equipment description)
- GP4100 graphic terminals type PFXGP411...* present a potential electrostatic charging hazard, safety precautions are defined in the instructions guide.
- GP4100 graphic terminals type PFXGP411...* must not be exposed at direct sunlight.
- The power supply cable, communication cables, USB or mini-USB connectors and RJ45 connectors must not be disconnected while circuit is live.
- The user shall take into consideration during the installation of GP4100 graphic terminals type PFXGP411...*, that the product underwent only a shock corresponding to an energy of a low risk at 2J.
- To guarantee the ingress protection, the standard thin gasket shall only be used with screw type of installation fastener.

The other conditions of use are stipulated in the instructions.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

For issue 01:

- New address for the manufacturing location WUXI PRO-FACE CO., LTD.

Annex:

[IECEx INE 18.0011X-01_Annex.pdf](#)



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Annex: IECEx INE 18.0011X-01_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

The terminals have to be supplied with the following rated voltage:

	U _n (V _{D.C.})
PFXGP411...*	12 / 24

MARKING

Marking has to be readable and indelible; it has to include the following indications:

- SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD
JP - 541-0041 Osaka
- PFXGP411...* (* see descriptive table of equipment below)
- IECEx INE 18.0011X
- (Serial number)
- Ex nA nC IIC T5 Gc
- Ex tc IIIC T100°C Dc
- Tamb: 0°C to +50°C
- **WARNINGS:**
 - DO NOT DISCONNECT WHEN CIRCUIT IS LIVE
 - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS.

Marking may be carried out in the language of the country of use.

The equipment has also to carry the marking normally stipulated by its construction standards.

DESCRIPTIVE TABLE OF THE EQUIPMENT:

PFXGP411...*	
Product	Description
PFXGP4115T*D	Display unit 4.3 inches, 12-24 V _{D.C.} with RS232C
PFXGP4116T*D	Display unit 4.3 inches, 12-24 V _{D.C.} with RS232C/485
PFXGP4114T*D	Display unit 4.3 inches, 12-24 V _{D.C.} with Ethernet

All models may be followed by alphanumeric characters and there is no impact safety related critical components and constructions.

(*) may be any alphanumeric characters and there is no impact safety related critical components and constructions.

ROUTINE EXAMINATIONS AND TESTS

- None