



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx INE 16.0058X

Issue No: 1

Certificate history:

Status: **Current**

Issue No. 1 (2018-01-24)

Issue No. 0 (2017-02-28)

Date of Issue: **2018-01-24**

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Applicant: **SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD.**  
4-4-9 Kitahama, Chuo-Ku  
Osaka-Shi, Osaka 541-0041  
Japan

Equipment: **Graphic Terminals type PFXGP4...\***  
Optional accessory:

Type of Protection: **nA nC tc**

Marking:  
Ex nA nC IIC T6 or T5 Gc  
Ex tc IIC T85°C or T100°C Dc

\* See Annexe for details

Approved for issue on behalf of the IECEx  
Certification Body:

Thierry HOUEIX

Position:

Ex Certification Officer

Signature:  
(for printed version)



*Thierry Houeix*  
2018-01-25

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**INERIS**  
Institut National de l'Environnement Industriel  
et des Risques, BP n2  
Parc Technologique ALATA  
France

# INERIS



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Manufacturer: SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD.  
4-4-9 Kitahama, Chuo-Ku  
Osaka-Shi, Osaka 541-0041  
Japan

Additional Manufacturing location(s):

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 electrical apparatus 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical 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/ExTR16.0060/00

FR/INE/ExTR16.0060/01

### Quality Assessment Report:

FR/INE/QAR16.0001/01



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Graphic terminals type PFXGP4...\* are user interfaces which include a front module with resistive touch-screen, a box unit and printed circuit boards.

The terminals are non-sparking during conditions of normal operation and are protected by protection modes Ex nA and Ex tc except the resistive touch-screen display which is protected by Ex nC as being hermetically sealed.

Graphic terminals type PFXGP...\* are designed to be supplied by 24V<sub>DC</sub>.

For a use in zone 2 for Gas application, the graphic terminal shall be mounted in an enclosure EPL Gc insuring a minimal ingress protection IP54.

For a use in zone 22 for Dust application, the graphic terminal shall be mounted in an enclosure EPL Dc insuring a minimal ingress protection IP6X.

*\* Dots are replaced by letters defining the product version.*

### SPECIFIC CONDITIONS OF USE: YES as shown below:

- Graphic terminal type PFXGP4...\* is intended to be used in an operating temperature range from 0°C to 50°C or from 0°C to 55°C (\* See table of equipment description).

- Graphic terminals PFXGP4...\* shall be installed in an EPL Gc additional enclosure 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 EN 60079-0:2012, EN 60079-15:2010 and EN 60079-31:2014 standards. (\* See table of equipment description).

- The enclosure equipped with graphic terminals PFXGP4...\* 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.

- Graphic terminals PFXGP4...\* present a potential electrostatic charging hazard, safety precautions are defined in the instructions guide.

- Graphic terminals PFXGP4...\* 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.

- User shall take into consideration during the installation of graphic terminals PFXGP4...\*, that the product underwent only a shock corresponding to an energy of a low risk at 2J.

The other conditions are stipulated in the instructions guide.





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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

The changes of the issue 01 are regarding:

- The modification of the manufacturer's legal name from DIGITAL ELECTRONICS CORPORATION to SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD.
- The introduction of two new specific products : PFXGP4501TADLC and PFXGP4601TADLC.
- Update of the manufacturer's documentation.

## Annex:

[IECEx INE 16.0058X-01\\_Annex.pdf](#)



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Annex: IECEx INE 16.0058X-01\_Annex.pdf

## PARAMETERS RELATING TO THE SAFETY

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

	$U_n$ (V <sub>D.C.</sub> )
PFXGP4...*	24

## MARKING

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

A/ Graphic terminals type PFXGP4...\* except types PFXGP4501TADLC and PFXGP4601TADLC:

- SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD.  
541-0041 OSAKA  
JAPAN
- PFXGP4...\* (\* see list of available products below)
- IECEx INE 16.0058X
- (Serial number)
- Ex nA nC IIC T5 Gc
- Ex tc IIIC T100°C Dc
- Tamb: 0°C to +50°C or 0°C to +55°C
- Warnings:
  - DO NOT DISCONNECT WHEN CIRCUIT IS LIVE
  - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS.

B/ Graphic terminals types PFXGP4501TADLC and PFXGP4601TADLC:

- SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD.  
541-0041 OSAKA  
JAPAN
- PFXGP4501TADLC or PFXGP4601TADLC
- IECEx INE 16.0058X
- (Serial number)
- Ex nA nC IIC T6 Gc
- Ex tc IIIC T85°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.



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## List of products parts of *Graphic Terminals type PFXGP4...\**

Product	Description	Ambient temperature range
PFXGP4201TADW	Display 3"5 QVGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, 6 function keys (for HMIGTO), Flash Memory, Two serial lines and Two USB ports	0°C to + 50°C
PFXGP4201TAD	Display 3"5 QVGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, 6 function keys (for HMIGTO), Flash Memory, One serial line, LAN port and two USB ports	0°C to + 50°C
PFXGP4203TAD	Display 3"5 QVGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory, One serial line (Isolated), LAN port and Two USB ports	0°C to + 50°C
PFXGP4301TADW	Display 5"7 QVGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory (Smaller size), Two serial lines, LAN port and Two USB ports	0°C to + 50°C
PFXGP4301TAD	Display 5"7 QVGA-TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory, SD card slot, Two serial lines, LAN port and Two USB ports	0°C to + 55°C
PFXGP4303TAD	Display 5"7 QVGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory, SD card slot, Two serial lines (COM2 Isolated), LAN port , Two USB ports	0°C to + 55°C
PFXGP4401WADW	Display 7"0 WVGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, 8 function keys (for HMIGTO), Flash Memory (Smaller size), SD card slot, Two serial lines, LAN port and Two USB ports	0°C to + 50°C
PFXGP4401TAD	Display 7"5 VGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory, SD card slot, Two serial lines, LAN port and Two USB ports	0°C to + 55°C
PFXGP4501TAD	Display 10"4 VGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory, SD card slot, Two serial lines, LAN port and two USB ports	0°C to + 55°C
PFXGP4501TADLC	Display 10"4 VGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory, SD card slot, Two serial lines, LAN port and two USB ports	0°C to + 50°C
PFXGP4503TAD	Display 10"4 SVGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory, SD card slot, Two serial lines (COM2 Isolated), LAN port and Two USB ports	0°C to + 55°C
PFXGP4501TMD	Display 10"4 SVGA TFT 65K colours, Touch Screen (Matrix Touch Panel), 24V DC supply, Flash Memory, SD card slot, Two serial lines, LAN port and Two USB ports	0°C to + 55°C
PFXGP4501TADW	Display 10"4 SVGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory (Smaller size), SD card slot, Two serial lines, LAN port and Two USB ports	0°C to + 50°C
PFXGP4601TAD	Display 12"1 SVGA 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory, SD card slot, Two serial lines, LAN port and Two USB ports	0°C to + 55°C
PFXGP4601TADLC	Display 12"1 SVGA 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory, SD card slot, Two serial lines, LAN port and Two USB ports	0°C to + 50°C
PFXGP4603TAD	Display 12"1 SVGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory, SD card slot, Two serial lines (COM2 Isolated), LAN port and Two USB ports	0°C to + 55°C
PFXGP4601TMD	Display 12"1 SVGA TFT 65K colours, Touch Screen (Matrix Touch Panel), 24V DC supply, Flash Memory, SD card slot, Two serial lines, LAN port and Two USB ports	0°C to + 55°C

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

## ROUTINE EXAMINATIONS AND TESTS

None