

# ST6000 Series and STC6000 Series

## ATEX/IECEX Instruction Guide

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Concerning the use of ST6000 Series (ST-6300TA/6500TA) and STC6000 Series (STC-6300TA) for applications in potentially explosive atmospheres (Zones 2/22)

Schneider Electric Japan Holdings Ltd.  
4-4-9 Kitahama, Chuo-Ku, Osaka-Shi,  
Osaka, 541-0041 JAPAN

**Type examination certificate: INERIS 23ATEX3001U**  
**IECEX Certificate of Conformity: IECEX INE 23.0048U**

### SAFETY INSTRUCTIONS

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists, which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

### **DANGER**

**DANGER** indicates a hazardous situation which, if not avoided, **will result** in death or serious injury.

### **WARNING**

**WARNING** indicates a hazardous situation which, if not avoided, **could result** in death or serious injury.

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**Pro-face**<sup>™</sup>

by Schneider Electric

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 <b>CAUTION</b>
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<b>CAUTION</b> indicates a hazardous situation which, if not avoided, <b>could result in</b> minor or moderate injury.
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<b>NOTICE</b>
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<b>NOTICE</b> is used to address practices not related to physical injury.
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## PLEASE NOTE

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric or any of its affiliates or subsidiaries (hereinafter, referred to as Schneider Electric) for any consequences arising out of the use of this material. A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

## SCOPE

This present document applies when the ST6000 Series (ST-6300TA/6500TA) and STC6000 Series (STC-6300TA) bears  marking and provides important information when used in hazardous areas. This documentation has to be kept and always refer to those instructions for installation, operation, maintenance or evolution of your system.

You can download this instruction guide at [www.pro-face.com](http://www.pro-face.com).

If any translation is needed, you can contact your local Pro-face support or sales center.

The product is only supplied with 24 Vdc.

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## Relevant Standards

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The product is manufactured in accordance with:

- Standard EN IEC 60079-0 (2018) and IEC 60079-0 (2017): Explosive atmospheres - Part 0: Equipment - General requirements.
- Standard EN IEC 60079-7 (2015) + A1 (2018) and IEC 60079-7(2017): Explosive atmospheres - Part 7: Equipment protection by increased safety "e".
- Standard EN 60079-15 (2010) and IEC 60079-15 (2017): Explosive atmospheres - Part 15: Equipment protection by type of protection "n".
- Standard EN 60079-31 (2014) and IEC 60079-31 (2022): Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t".

## DANGER

### EXPLOSION HAZARD

Install, use, and maintain the product in accordance with:

- Standard IEC 60079-14: Explosive atmospheres - Part 14: Electrical installations design, selection and erection.
- Standard IEC 60079-17: Inspection and maintenance of electrical installations in hazardous areas.
- Edicts, by-laws, laws, directives, circulars, standards, regulations and any other document relating to where the apparatus is installed.

**Failure to follow these instructions will result in death or serious injury.**


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## Permitted zones of application

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Refer to the section "Markings" to get information about the permitted zones of protection and the types of protection.

- The product installed in zones 2/22 hazardous areas must be certified and bear the  marking
- Ensure with the marking that the product is compatible with the conditions permitted for the hazardous area at the site where it is being used.

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## Installation, Operation and Maintenance

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Make sure you follow all the recommendations in the in the hardware manual for each product and additionally those listed below.

### **DANGER**

#### **EXPLOSION HAZARD**

- Confirm that the location is free from explosively hazardous gases or dust before connecting or disconnecting equipment, replacing or wiring modules.
- Make sure that the ambient temperature in protective enclosure never exceeds the temperature marked on the product.
- Confirm each interface (COM, Ethernet, USB, power line, ...) has been securely locked.
- Confirm that any USB cable has been attached with its appropriate clamp.
- Install the product in an enclosure EPL Gc insuring a minimal ingress protection IP54 for use in zone 2 and in an enclosure EPL Dc insuring a minimal ingress protection IP6X for use in zone 22.
- Make sure the purging test inside the product is performed and validated in accordance with IEC 60079-2 when installed in an IP4X pressurized enclosure.
- Do not install the product in the environment more than Pollution Degree 2 as defined in IEC 60664-1.
- Do not open the enclosure when an explosive atmosphere is present.
- Confirm that the power supply has been turned OFF before installing, removing, or wiring the product, or replacing modules or accessories.
- Ensure that ground at power supply is properly connected.
- Do not use damaged products or accessories.
- Do not expose the product to direct sunlight.
- Do not allow layers of dust to form on the product; it should be cleaned regularly.
- Implement method to avoid risk of electrostatic discharge at using zone 2 and 22 areas. See the details at NOTE.
- Add the warning for potential electrostatic charging hazard in a location visible by the operator after installation in order to maintain the required level of safety.
- Take into consideration during the installation, that the product underwent only a shock corresponding to an energy of a low risk at 2J.
- Mount the display in an enclosure according to the installation procedures described in the user manual.







**Failure to follow these instructions will result in death or serious injury.**

**NOTE:** The front surface of the product has a risk of electrostatic discharge. If the product is operating in zone 2/22 areas, the following instructions must be applied:

- Use non-conductive gloves (e.g. Electrosoft Latex Gloves by Honeywell Safety) made of leather, plastic or rubber whose surface resistance is more than 1 GΩ at  $23 \pm 2$  °C and  $50 \pm 5$  % relative humidity.
- Use a non-conductive touch pen (e.g. PFXZC7TPP1 by Pro-face) made of plastic material whose surface resistance is more than 1 GΩ at  $23 \pm 2$  °C and  $50 \pm 5$  % relative humidity.

## Markings

ATEX and IECEx markings, applied to the product are as follows:

ST6000 Series (ST-6300TA/6500TA)	STC6000 Series (STC-6300TA)
<p>Schneider Electric Japan Holdings Ltd. 541-0041 Osaka - Japan</p> <p>  </p> <p>INERIS 23ATEX3001U IECEX INE 23.0048U II 3 GD Ex ec nC IIC Gc Ex tc IIIC Dc Tamb: 0 to 50°C</p>	<p>Schneider Electric Japan Holdings Ltd. 541-0041 Osaka - Japan</p> <p>  </p> <p>INERIS 23ATEX3001U IECEX INE 23.0048U II 3 GD Ex ec nC IIC Gc Ex tc IIIC Dc Tamb: 0 to 45°C</p>
<p>WARNING</p> <ul style="list-style-type: none"><li>- Do not disconnect when circuit is live.</li><li>- Potential electrostatic charging hazard (see instructions).</li></ul>	
<p><b>NOTE:</b> Other required elements such as product reference, serial number and date code of manufacture are already marked on products. All models may be followed by alphanumeric characters and there is no impact safety related critical components and constructions.</p>	

## EU DECLARATION OF CONFORMITY

We: Schneider Electric Japan Holdings, Ltd.  
 Subsidiary of Schneider Electric Industries SAS (FR-92506 Rueil Malmaison)  
 4-4-9 Kitahama, Chuo-Ku, Osaka  
 541-0041 Japan

Declare under our sole responsibility that the products:

Trademark: **Pro-face**  
 by Schneider Electric




Name: ST6000 Series, STC6000 Series

Type: Human Machine Interface

Models: PFXST6300TADE, PFXST6500TADE  
 PFXSTC6300TADDKE, PFXSTC6300TADDCE

Includes models with additional alphanumeric characters at the end of the model number.

Are in conformity with the requirements of the following directives and conformity was checked in accordance with the following standards.

Directive	Harmonized standard / Notified body reference
EMC Directive 2014/30/EU	EN 61131-2: 2007; EN 61000-6-4: 2007/A1: 2011; EN 61000-6-2: 2005/AC: 2005
ATEX Directive 2014/34/EU	EN IEC 60079-0: 2018, EN IEC 60079-7: 2015/A1: 2018 EN 60079-15: 2010, EN 60079-31: 2014
	<p><b>Type examination certificate:</b>                      INERIS 23ATEX3001U and IECEX INE 23.0048U</p> <div style="display: flex; align-items: center;">    </div> <p>II 3 GD                      Ex ec nC IIC Gc                      Ex tc IIIC Dc                      Tamb.: 0 to 50°C or 0 to 45°C</p>

Subject to correct installation, maintenance and use conforming to its intended purpose, to the applicable regulations and standards, to the supplier's instructions and to accepted rules of the art.

This declaration becomes invalid in the case of any modification to the products not authorized by us.

The guides, user manuals and instructions are available at [www.pro-face.com](http://www.pro-face.com)

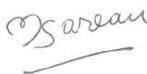
Issued at:

Carros-France  
 March 14th, 2024

Authorised Signatory (\*):

Name: Samuel MAREAU  
 Product Manager Compliance & Certification

Signature:



(\*): Name and title of the signatory empowered to bind the manufacturer or his authorized representative

## UK DECLARATION OF CONFORMITY

**We: Manufacturer**

Schneider Electric Japan Holdings, Ltd.  
 Subsidiary of Schneider Electric Industries SAS (FR-92506 Rueil Malmaison)  
 4-4-9 Kitahama, Chuo-Ku, Osaka  
 541-0041 Japan

**UK Representative**

Schneider Electric Limited  
 Stafford Park 5  
 Telford, TF3 3BL - United Kingdom

Declare under our sole responsibility that the products:


Trademark: **Pro-face™**  
 by Schneider Electric

Name: ST6000 Series, STC6000 Series

Type: Human Machine Interface

Models: PFXST6300TADE, PFXST6500TADE  
 PFXSTC6300TADDKE, PFXSTC6300TADDCE  
 Includes models with additional alphanumeric characters at the end of the model number.

Are in conformity with the requirements of the following directives and conformity was checked in accordance with the following standards.

Regulation	Designated standard / Approved body reference
SI 2016 No. 1091	EN 61131-2: 2007; EN 61000-6-4: 2007/A1: 2011; EN 61000-6-2: 2005/AC: 2005
SI 2016 No. 1107	EN IEC 60079-0: 2018, EN IEC 60079-7: 2015/A1: 2018 EN 60079-15: 2010, EN 60079-31: 2014
	<b>Type examination certificate:</b> INERIS 23ATEX3001U and IECEx INE 23.0048U II 3 GD Ex ec nC IIC Gc Ex tc IIIC Dc Tamb.: 0 to 50°C or 0 to 45°C 

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Name: David WILLIAMS  
 VP Marketing UK&I  
 Zone UK & Ireland