Magelis XBTGT
ATEX Instruction Guide

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Concerning the use of XBTGT graphic terminals for applications in potentially explosive atmospheres
(Zones 2/22, equipment category 3 Gas Dust)

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Type examination certificate: INERIS 06ATEX3024X and Additions 01 / 02

SAFETY INSTRUCTIONS

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, 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.

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⚠ WARNING

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

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

DISCLAIMER

All work relating to installation, assembly, connection, setup, maintenance and repair of the equipment must be performed by approved staff, qualified in the appropriate skills. No liability is assumed by any company of Schneider Electric group for any consequences arising out of the use of this product. This document is not intended as an instruction manual for untrained persons. These products must not be used for functions other than those for which they are designed.
Liability for manufacturer traceability is only ensured at the first known delivery destination (serial number specified on the certification label).

Relevant Standards

These devices have been manufactured in accordance with:

- Standard EN 60079-0 (2009) and IEC 60079-0 Ed6 (2011): Explosive atmospheres - Part 0: Equipment - General requirements.
- Standard EN 60079-15 (2010) and IEC 60079-15 Ed4 (2010): Explosive atmospheres - Part 15: Equipment protection by type of protection “n”.
- Standard EN 60079-31 (2009) and IEC 60079-31 Ed1 (2008): Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure “t”.

⚠ DANGER

POTENTIAL FOR EXPLOSION

Install, use, and maintain these modules in accordance with:

- Standard IEC 60079-14 Ed4 (2007): Explosive atmospheres - Part 14: Electrical installations design, selection and erection.
- Standard EN 60079-17 (2007): Inspection and maintenance of electrical installations in hazardous areas.
- Standard EN 61241-14 (2004): Electrical apparatus for use in the presence of combustible dust, Part 14: Electrical apparatus protected by enclosures. Selection, installation and maintenance.
- 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.

Relevant products

These recommendations relate to graphic terminals intended for installation in areas where explosive atmospheres may occur (Zones 2/22) for Category 3G or 3D equipment (Category 3: normal level of protection - G: Gas - D: Dust).

Permitted zones of application

With regard to the "Relevant Standards" section above, the following permitted zones of application are allowed:

- The graphic terminals XBTGT1000 and XBTGT1005 series may be installed in Zones 2/22, II (surface industries), category 3 (normal level of protection), G (Gas) D (Dust), IIC (groups of gases), T4 (T135°C maximal surface temperature).
- The graphic terminals XBTGT2000 series may be installed in Zones 2/22, II (surface industries), category 3 (normal level of protection), G (Gas) D (Dust), IIB (groups of gases),T3 (T200°C maximal surface temperature).
- The graphic terminals XBTGT4000 and XBTGT5000 series may be installed in Zones 2/22, II (surface industries), category 3 (normal level of protection), G (Gas) D (Dust), IIB (groups of gases), T4 (T135°C maximal surface temperature).
- The graphic terminals XBTGT6000 and XBTGT7000 series may be installed in Zones 2/22, II (surface industries), category 3 (normal level of protection), G (Gas) D (Dust), IIB (groups of gases), T4 (T135°C maximal surface temperature). XBTGT6000 and XBTGT7000 have led backlights.

Installation, Operation and Maintenance

Make sure you follow all the recommendations in the XBTGT Quick Reference Guide and additionally those listed below.

⚠ DANGER

POTENTIAL FOR EXPLOSION

- Confirm that the location is free from explosively hazardous gases or dust before connecting or disconnecting equipment, replacing or wiring modules.
- Confirm that the externally connected unit and each interface (COM1, COM2, EXT1, EXT2, CF Card, AUX) and the CF Card Cover and the AUX Connector have been securely locked.
- Confirm that the power supply has been turned OFF before disconnecting, replacing or wiring modules.
- Before turning ON, wipe the front panel of the graphic terminal with a damp cloth to avoid any electrostatic discharge.
- Only use screw fasteners suitable for installations in explosive atmospheres.
- Check that the Video and Audio Input connectors are fastened correctly using collar and clamp-type accessories to prevent them from coming loose.
- Do not use equipment that has been damaged.
- Confirm that USB cable has been attached with the USB Cable Clamp (for XBTGT1005 and XBTGT2000 series) or the USB Holder (for XBTGT4000, 5000, 6000 and 7000 series) before using the USB Host Interface.
- Ensure that the labelling specifications are compatible with the conditions permitted for the hazardous area at the site where it is being used (Zones 2/22 Group II: Surface industries - Category 3: Normal level of protection - G: Gas - D: Dust - IP: degree of protection (protection against solids and liquids) - T: maximum surface temperature).
- Use only recommended wiring accessories when setting up equipment in explosive atmospheres.
- Do not open the cabinet while the system is powered up.

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

⚠ CAUTION

ENVIRONMENTAL HAZARDS TO THE EQUIPMENT

- Before starting up the graphic terminal, wait until it has reached the ambient temperature.
- If condensation occurs, do not turn on the graphic terminal until it is completely dry again.
- Check the following points to avoid the products overheating during operation:
  - The ambient temperature must not exceed 50°C (122°F).
  - The graphic terminal must not be exposed to direct sunlight.
  - The vents in the terminal casing must not be obstructed.
  - Do not allow layers of dust to form on the graphic terminal: it should be cleaned regularly.
- Check that the screw installation fasteners have not been damaged and are always tightened correctly.
- Check that the cable installation fasteners have not been damaged. Replace them if necessary.
- Check that graphic terminals are mounted in enclosures satisfying minimum IP54 degree of protection for category 3G and IP6x for category 3D and the requirements relating to the 3G or 3D categories in Zones 2/22 (Category 3: normal level of protection - G: Gas - D: Dust).
- Ensure that XBT GT is mounted according to its manufacturer's specifications.

Failure to follow this instruction can result in injury or equipment damage.

Markings

ATEX and markings, applied to the XBTGT terminals, are as follows:

Models: **XBTGT1000 and XBTGT1005 series**	**Models:** **XBTGT4000, XBTGT5000, XBTGT6000, XBTGT7000 series**
Schneider Electric **F-06516 Carros**  **INERIS 06ATEX3024X** **II 3 G D** **Ex nA nC IIC T4 Gc** **Ex tc IIIB T135°C Dc** **Tamb: 0°C to +50°C** WARNING: Do not disconnect while circuit is live. Potential electrostatic charges. Wipe the front panel of the terminal with a damp cloth before turning on.	**Schneider Electric** **F-06516 Carros**  **INERIS 06ATEX3024X** **II 3 G D** **Ex nA nC IIB T4 Gc** **Ex tc IIIB T135°C Dc** **Tamb: 0°C to +50°C** WARNING: Do not disconnect while circuit is live. Potential electrostatic charges. Wipe the front panel of the terminal with a damp cloth before turning on.

Models: **XBTGT2000 series**
Schneider Electric **F-06516 Carros**    **INERIS 06ATEX3024X** **II 3 G D** **Ex nA nC IIB T3 Gc** **Ex tc IIIB T200°C Dc** **Tamb: 0°C to +50°C** WARNING: Do not disconnect while circuit is live. Potential electrostatic charges. Wipe the front panel of the terminal with a damp cloth before turning on.

EU DECLARATION OF CONFORMITY

We: Schneider Electric Industries SAS
35 rue Joseph Monier
Rueil Malmaison 92506 - France

Hereby declare under our own responsibility that the products:

Trademark	**Magelis**
Product, Type	**Human Machine Interface** **XBTGT:** XBTGT1100, XBTGT1105, XBTGT1130, XBTGT1135, XBTGT1335, XBTGT2110, XBTGT2120, XBTGT2130, XBTGT2220, XBTGT2330, XBTGT2430, XBTGT2930, XBTGT4230, XBTGT4330, XBTGT4340, XBTGT5230, XBTGT5330, XBTGT5340, XBTGT5430, XBTGT6330, XBTGT6340, XBTGT7340 Includes models with additional alphanumeric characters at the end of the model number.
List of reference and options	See the Magelis XBTGT ATEX Instruction Guide

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**
ATEX Directive 2014/34/EU	EN 60079-0: 2009, EN 60079-15: 2010, EN 60079-31: 2009
(*) According to art 41.2, certificates issued under Directive 94/9/EC shall be valid under this directive.	**EC Type examination certificate:** INERIS 06ATEX3024X and Additions 01/02 (*) Ⓔx II 3 G D Ex nA nC IIC or IIB (**) T3/T4 (**) Gc Ex tc IIIB T135 or 200°C(**) Dc IP64 Tamb. 0°C to +50°C (**) according to models By INERIS: Parc Technologique ALATA, 60550 Verneuil en Halatte - France

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.
Compliance with the ATEX Directives will require the application of ATEX guide giving requirements, details and advices for installation of products used. The guides are available on **www.schneider-electric.com**

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