Magelis GTO
ATEX Instruction Guide

Concerning the use of Magelis GTO graphic terminals for applications in potentially explosive atmospheres (Zones 2/22)

Schneider Electric
8ème rue, ZI Carros 06516 Carros
cedex – France

Type examination certificate: INERIS 12ATEX3007X
IECEx Certificate of Conformity: IECEx INE16.0057X

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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* H R B 4 3 2 7 8 0 2 *
PLEASE NOTE

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by 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 Magelis GTO terminal bears marking. They are supplied only with 24 Vdc. 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.schneider-electric.com. If any translation is needed, you can contact your local Schneider support or sales center.
Relevant Standards

These devices have been manufactured in accordance with:


Permitted zones of application

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

• Magelis GTO terminals installed in zones 2/22 hazardous areas must be certified and bear the \( \text{Ex} \) marking
• Ensure with the marking that the terminals are compatible with the conditions permitted for the hazardous area at the site where it is being used.

DANGER

POTENTIAL FOR EXPLOSION

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

• Standard EN 60079-17 (2013): 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.
Installation, Operation and Maintenance

Make sure you follow all the recommendations in the Magelis GTO 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.
- The ambient temperature in protective enclosure must not exceed 50°C or 55°C (refer to marking).
- Confirm each interface (COM1, COM2, LAN), field wiring terminal blocks and the SD Card / Battery Cover have been securely locked.
- Confirm USB cables are attached with its appropriate clamp.
- Modules must be installed in a protective enclosure that provides at least the following degree of protection:
  - IP54 for atmosphere with gas
  - IP6x for atmosphere with dust
- Do not open the protective enclosure while the system is powered up.
- Confirm that the power supply has been turned OFF before disconnecting, replacing or wiring modules.
- Ensure that the FG (Functional Ground) on the power supply is properly connected to ground.
- Ensure the Stainless Bezel Part (for HMIGTOxx15) is properly connected to ground.
- Use only screw fasteners suitable for installations in explosive atmospheres.
- Do not use damaged equipment.
- Use Touch Pen XBTZGPEN on all Magelis GTO used in zone 2 and zone 22 areas to avoid the risk of electrostatic discharges.
- Protect the terminal against accidental shocks.

Failure to follow these instructions will result in death or serious injury.
<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
</table>

**ENVIRONMENTAL HAZARDS TO THE EQUIPMENT**

- Do not allow layers of dust to form on Magelis GTO terminals. Clean the terminal regularly.
- The ambient temperature in protective enclosure must not exceed 50°C or 55°C (refer to marking).
- Ensure that Magelis GTO terminals are installed according to its manufacturer’s specifications.

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

Metal part for HMIGTO6315, HMIGTO5315, HMIGTO2315 should be connected to ground.

When installed in a metal cabinet or enclosure, the contact point shall be paint free and metal cabinet or enclosure should be grounded.

1  Gasket (Non-metal)
2  Panel (Metal)
3  Brackets (Metal)
4  M4 Hex nuts (Metal)
**Markings**

ATEX and IECEx markings, applied to the Magelis GTO terminals are as follows:

<table>
<thead>
<tr>
<th>Models:</th>
<th>Models:</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIGTO6315, HMIGTO6310, HMIGTO5315, HMIGTO5310, HMIGTO4310, HMIGTO2315, HMIGTO2310</td>
<td>HMIGTO2300, HMIGTO1310, HMIGTO1300, HMIGTO3510</td>
</tr>
</tbody>
</table>

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![Ex IEC Ex]

INERIS 12ATEX3007X
IECEx INE 16.0057X
II 3 G D
Ex nA nC IIC T5 Gc
Ex tc IIIC T100°C Dc
Tamb: 0°C to +55°C

**WARNING**
- Do not disconnect when circuit is live.
- Potential electrostatic charging hazard (see instructions).

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![Ex IEC Ex]

INERIS 12ATEX3007X
IECEx INE 16.0057X
II 3 G D
Ex nA nC IIC T5 Gc
Ex tc IIIC T100°C Dc
Tamb: 0°C to +50°C

**WARNING**
- Do not disconnect when circuit is live.
- Potential electrostatic charging hazard (see instructions).

**NOTE:** 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.
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:

<table>
<thead>
<tr>
<th>Trademark</th>
<th>Magelis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product, Type</td>
<td>Human Machine Interface</td>
</tr>
<tr>
<td></td>
<td>HMIGTO:</td>
</tr>
<tr>
<td></td>
<td>HMIGTO1300, HMIGTO1310, HMIGTO2300,</td>
</tr>
<tr>
<td></td>
<td>HMIGTO2310, HMIGTO2315, HMIGTO3510,</td>
</tr>
<tr>
<td></td>
<td>HMIGTO4310, HMIGTO5310, HMIGTO5315,</td>
</tr>
<tr>
<td></td>
<td>HMIGTO6310, HMIGTO6315</td>
</tr>
</tbody>
</table>

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

List of reference and options | See the Magelis GTO ATEX Instruction Guide

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

<table>
<thead>
<tr>
<th>Directive</th>
<th>Harmonized standard / Notified body reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATEX Directive 2014/34/EU</td>
<td>EC Type examination certificate:</td>
</tr>
<tr>
<td></td>
<td>INERIS 12ATEX3007X (*) and IECEx INE 16.0057X</td>
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<tr>
<td></td>
<td>II 3 G D</td>
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<tr>
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<td>Tamb: 0°C to +50°C / +55°C</td>
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<tr>
<td></td>
<td>By INERIS: Parc Technologique ALATA, 60550 Verneuil en Halatte - France</td>
</tr>
</tbody>
</table>

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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Industrial Control & Drives
Customer Satisfaction & Quality
Vice President