

Harmony HMISTU and HMISCU ATEX/IECEx Instruction Guide

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Concerning the use of Harmony HMISTU and HMISCU terminals for applications in potentially explosive atmospheres (Zones 2/22)

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Type examination certificate: INERIS 13ATEX3013X
IECEx Certificate of Conformity: IECEx INE16.0016X

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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EAV26707 02
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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.

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 Harmony HMISTU and HMISCU terminal 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.se.com.

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

Harmony HMISTU and HMISCU terminals are only supplied with 24 Vdc.

Relevant Standards

These device have been manufactured in accordance with:

- Standard EN 60079-0 (2018) and IEC 60079-0 (2017): Explosive atmospheres - Part 0: Equipment - General requirements.
- Standard EN 60079-15 (2010) and IEC 60079-15 (2010): Explosive atmospheres - Part 15: Equipment protection by type of protection "n".
- Standard EN 60079-31 (2014) and IEC 60079-31 (2013): 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: Explosive atmospheres - Part 14: Electrical installations design, selection and erection.
- Standard EN 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.

Permitted zones of application

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

- Harmony HMISTU and HMISCU terminals installed in zones 2/22 hazardous areas must be certified and bear  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.

Installation, Operation and Maintenance

Make sure you follow all the recommendations in the Harmony HMISTU and HMISCU user manual, 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 service temperature in the suitable enclosure must not exceed 50°C (122 °F).
- 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 certified equipment in a protective enclosure providing at least IP54 protection when applied in zone 2 environments and IP6x when applied in zone 22 environments. This protective enclosure must be certified for hazardous areas zone 2 or 22.
- 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 ground at power supply is properly connected.
- Do not use equipment that has been damaged.
- Use Touch Pen XBTZGPEN to all terminals at using zone 2 and zone 22 areas to avoid the risk of electrostatic discharges.
- Do not expose the terminal to direct sunlight.
- The terminal must be protected against accidental shocks.
- Do not allow layers of dust to form on terminals: it should be cleaned regularly.

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

Markings

ATEX and IECEx markings, applied to the Harmony HMISTU and HMISCU terminals, are as follows:

Schneider references	Marking
HMISTU655 HMISTU855 HMIS5T HMIS65 HMIS85 HMISCU6A5 HMISCU8A5 HMISAC HMISCU6B5 HMISCU8B5 HMISBC (maybe followed by C or W)	Schneider Electric F-06516 Carros    INERIS 13ATEX3013X IECEx INE 16.0016X II 3 G D Ex nA nC IIC T4 Gc Ex tc IIIC T135°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.	

EU DECLARATION OF CONFORMITY

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

Hereby declare under our sole responsibility that the products:

Trademark	Harmony or Magelis
Product, Type	Human Machine Interface HMISTU: HMISTU655, HMISTU855, HMIS5T, HMIS65, HMIS85 HMISCU: HMISCU6A5, HMISCU8A5, HMISAC, HMISCU6B5, HMISCU8B5, HMISBC Includes models with additional alphanumeric characters at the end of the model number.
List of reference and options	See the Harmony HMISTU and HMISCU ATEX/IECEx 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: 2018(**), EN 60079-15: 2010, EN 60079-31: 2014
(*) According to art 41.2, certificates issued under Directive 94/9/EC shall be valid under this directive. (**) After examination, the above products are not impacted by major changes of this new edition.	Type examination certificate: INERIS 13ATEX30013/01 (*) and IECEx INE 16.0016X    II 3 G D Ex nA nC IIC T4 Gc Ex tc IIIC T135°C Dc Tamb: 0°C to +50°C 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.se.com

Issued at Carros - FRANCE: May 21st, 2020



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