



Schneider Electric HMIDT752 Touch Smart Display User Guide

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Harmony GTU,GTUX and iDisplay
ATEX/IECEX Instruction Guide

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HMIDT752 Touch Smart Display

Concerning the use of Harmony GTU,GTUX and iDisplay for applications in potentially explosive atmospheres (Zones 2/22)

Schneider Electric

8ème rue, ZI Carros

06516 Carros cedex – France

Type examination certificate: INERIS 15ATEX3006X

IECEX Certificate of Conformity: IECEX INE15.0017X

Type examination certificate : CML 21UKEX3777X

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**.



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 GTU, GTUX and iDisplay 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.

The products are only supplied with 12...24 Vdc

Relevant Standards

These terminals have been 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 (2015) + A1 (2017): Explosive atmospheres – Part 7: Equipment protection by increased safety “e”.
- 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 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.

Permitted zones of application

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 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 user manual for each product 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.
- 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 modules 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 modules 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 disconnecting, replacing or wiring modules.
- Ensure that ground at power supply is properly connected.
- Do not use equipment that has been damaged.
- Do not expose the terminal 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.
- Use only the identical replacement battery (HMIZGBAT) for the product.

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

NOTE: The front surface of the product has risk of electrostatic discharge. If the product is operating in zone 2/22 areas, the following instructions must be applied:
All models except for HMIDT752 and HMIDT952:





- 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 ± 2 °C and 50 ± 5 % relative humidity.
- Use a non-conductive touch pen (XBTZGPEN by Schneider Electric) made of plastic material whose surface resistance is more than 1 GΩ at 23 ± 2 °C and 50 ± 5 % relative humidity to all terminals.








HMIDT752 and HMIDT952:

- Install the product away from 1,000 mm distance from a potential electrostatic source (e.g. plant process, conveyor belt, pipe, etc). The environmental conditions shall not be lower than 25 % relative humidity. If the potential electrostatic source is upper than 30 kV, it is necessary to call an expert to evaluate the electrostatic risk and the distance between the product and the electrostatic source.

Markings

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

HMIDT351, HMIDT542 HMIDT551, HMIDT642 HMIDT643, HMIDT651 HMIDT732, HMIG2U, HMIG3U, HMIG5U, HMIG5U2, HMIDID64DTD1, HMIDID73DTD1 HMIZGPDP, HMIZGCAN, HMIZMDARX, HMIZMDAEX	HMIDT752, HMIDT952
Schneider Electric F-06516 Carros    INERIS 15ATEX3006X IECEX INE 15.0017X CML 21UKEX3777X II 3 G D Ex ec nC IIC T4 Gc Ex tc IIIC T135°C Dc Tamb: 0°C to +60°C WARNING – Do not disconnect when circuit is live – Potential electrostatic charging hazard (see instructions)	Schneider Electric F-06516 Carros  INERIS 15ATEX3006X IECEX INE 15.0017X CML 21UKEX3777X II 3 G D Ex ec IIC T4 Gc Ex tc IIIC T135°C Dc Tamb: 0°C to +55°C WARNING – Do not disconnect when circuit i – Potential electrostatic charging l
NOTE: Other required elements such as product reference, serial number and date code of manufacture are already present on the product. All models may be followed by alphanumeric characters and there is no impact safety related critical components are affected.	

HMIDT35X, HMIDT35XFH	HMIDT65X, HMIDT65XFH, HMIG3X, HMIG3FH	HMIDT75X, HMIDT75XFH
Schneider Electric F-06516 Carros    INERIS 15ATEX3006X IECEX INE 15.0017X CML 21UKEX3777X II 3 G D Ex ec nC IIC T4 Gc Ex tc IIIC T135°C Dc Tamb: -30°C to +65°C WARNING – Do not disconnect when circuit is live – Potential electrostatic charging hazard (see instructions)	Schneider Electric F-06516 Carros    INERIS 15ATEX3006X IECEX INE 15.0017X CML 21UKEX3777X II 3 G D Ex ec IIC T4 Gc Ex tc IIIC T135°C Dc Tamb: -30°C to +70°C WARNING – Do not disconnect when circuit is live – Potential electrostatic charging hazard (see instructions)	Schneider Electric F-06516 Carros  INERIS 15ATEX3006X IECEX INE 15.0017X CML 21UKEX3777X II 3 G D Ex ec IIC T4 Gc Ex tc IIIC T135°C Dc Tamb: -30°C to +70°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 present on the product. All models may be followed by alphanumeric characters and there is no impact safety related critical components are affected.		

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 HMIGTU: HMIDT542, HMIDT642, HMIDT643, HMIDT732, HMIDT351, HMIDT551, HMIDT651, HMIDT752, HMIDT952, HMIG2U, HMIG3U, HMIG5U, HMIG5U2, HMIZGPDP, HMIZGCAN, HMIZMDARX, HMIZMDAEX, HMIZXJ19 HMIGTUX: HMIDT35X, HMIDT65X, HMIDT75X, HMIDT35XFH, HMIDT65XFH, HMIDT75XFH, HMIG3X, HMIG3XFH iDisplay HMIDID: HMIDID64DTD1, HMIDID73DTD1 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
ATEX Directive 2014/34/EU	EN IEC 60079-0: 2018 + AC: 2020, EN IEC 60079-7: 2015 + A1: 2018, EN 60079-15: 2010, EN 60079-31: 2014
	Type examination certificate: INERIS 15ATEX3006X and IECEx INE 15.0017X    II 3 G D Ex ec nC IIC T4 Gc Ex tc IIIC T135°C Dc Tamb: 0°C to +60°C or Tamb: -20°C to +60°C or Tamb: -30°C to +65°C or Tamb: -30°C to +70°C or II 3 G D Ex ec IIC T4 Gc Ex tc IIIC T135°C Dc Tamb: 0°C to +55°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 Osaka – JAPAN: October 11th , 2021



Name: Hakim GRIB
Digital Plant
Certification Director

UK DECLARATION OF CONFORMITY

We: Manufacturer

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Telford, TF3 3BL – United Kingdom

Hereby declare under our sole responsibility that the products:


Trademark	Harmony or Magelis
Product, Type	Human Machine Interface HMIGTU: HMIDT542, HMIDT642, HMIDT643, HMIDT732, HMIDT351, HMIDT551, HMIDT651, HMIDT752, HMIDT952, HMIG2U, HMIG3U, HMIG5U, HMIG5U2, HMIZGPDP, HMIZGCAN, HMIZMDARX, HMIZMDAEX, HMIZXJ19 HMIGTUX: HMIDT35X, HMIDT65X, HMIDT75X, HMIDT35XFH, HMIDT65XFH, HMIDT75XFH, HMIG3X, HMIG3XFH iDisplay HMIDID: HMIDID64DTD1, HMIDID73DTD1 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.1107	EN IEC 60079-0: 2018 + AC: 2020, EN IEC 60079-7: 2015 + A1: 2018, EN 60079-15: 2010, EN 60079-31: 2014
	Type examination certificate: CML 21UKEX3777X    II 3 G D Ex ec nC IIC T4 Gc Ex tc IIIC T135°C Dc Tamb: 0°C to +60°C or Tamb: -20°C to +60°C or Tamb: -30°C to +65°C or Tamb: -30°C to +70°C or II 3 G D Ex ec IIC T4 Gc Ex tc IIIC T135°C Dc Tamb: 0°C to +55°C By Eurofins E&E CML Limited: Ellesmere Port CH65 4LZ – UK

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 Regulations 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 Telford – United Kingdom: October 11th , 2021

	Name: David Williams VP Marketing UK&I Zone UK & Ireland
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Documents / Resources

	Schneider Electric HMIDT752 Touch Smart Display [pdf] User Guide HMIDID64DTD1, HMIDT752, HMIDT752 Touch Smart Display, HMIDT752, Touch Smart Display, Smart Display, Display
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References

- [Schneider Electric Global | Global Specialist in Energy Management and Automation](#)
- [Schneider Electric Global | Global Specialist in Energy Management and Automation](#)