



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx INE 15.0017X

Issue No: 3

Certificate history:

Status: **Current**

Issue No. 3 (2018-02-15)

Issue No. 2 (2017-03-02)

Date of Issue: **2018-02-15**

Page 1 of 4

Issue No. 1 (2015-10-01)

Issue No. 0 (2015-05-22)

Applicant: **SCHNEIDER ELECTRIC**  
Site Horizon  
8eme rue, ZI Carros  
06516 CARROS  
**France**

Equipment: **Magelis HMIGTU graphic terminals type HMIDT...\* or HMIDID...\* or HMIG...\***

Optional accessory: *Accessories type HMIZ...\**

Type of Protection: **nA nC tc**

Marking:

Ex nA nC IIC T4 Gc 0°C ≤ Ta ≤ 60°C - All modules except HMIDT752 and HMIDT952

Ex nA IIC T4 Gc 0°C ≤ Ta ≤ 55°C - HMIDT752 and HMIDT952 display unit

Ex tc III C T135°C Dc

Approved for issue on behalf of the IECEx  
Certification Body:

Thierry HOUEIX

Position:

Ex Certification Officer

Signature:  
(for printed version)



Date:

2018-02-16

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**INERIS**  
Institut National de l'Environnement Industriel  
et des Risques, BP n2  
Parc Technologique ALATA  
France



# IECEX Certificate of Conformity

Certificate No: IECEx INE 15.0017X

Issue No: 3

Date of Issue: 2018-02-15

Page 2 of 4

Manufacturer: **SCHNEIDER ELECTRIC**  
Site Horizon  
8ème rue, ZI Carros  
06516 CARROS  
**France**

Additional Manufacturing location(s):

**WUXI Pro-face Electronics Co. Ltd**  
No.20 Hangjiang Road  
National Hi-tech Industrial Development District  
214028 Wuxi.  
China

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-15 : 2010</b> Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

FR/INE/ExTR15.0023/00  
FR/INE/ExTR15.0023/03

FR/INE/ExTR15.0023/01

FR/INE/ExTR15.0023/02

Quality Assessment Report:

FR/INE/QAR10.0006/05

FR/INE/QAR12.0002/02



# IECEx Certificate of Conformity

Certificate No: IECEx INE 15.0017X

Issue No: 3

Date of Issue: 2018-02-15

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Magelis HMIGTU graphic terminals type HMIDT...\* or HMIDID...\* or HMIG...\* and Accessories HMIZ...\* are user interfaces which include a touch-screen display, a box unit and printed circuit boards. All the display units are resistive touch panels except the display with capacitive touch panels (HMIDT752 and HMIDT952 products).

The terminals are non-sparking during conditions of normal operation and are protected by protection modes Ex nA and Ex tc, except the resistive touch panels which are protected by Ex nC.

For a use in zone 2 for Gas application, the box unit shall be placed in an enclosure EPL Gc and the display unit onto an enclosure EPL Gc insuring a minimal ingress protection IP54.

For a use in zone 22 for Dust application, the box unit shall be placed in an enclosure EPL Dc and the display unit onto an enclosure EPL Dc insuring a minimal ingress protection IP6X.

The equipment is classified:

- Gc for Gas Group IIC and Temperature Class T4 for Gas application.
- Dc for Dust Group IIIC and Temperature Class T135°C for Dust application.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

- Magelis HMIGTU graphic terminals type HMIDT...\* or HMIDID...\* or HMIG...\* shall be mounted in an additional enclosure EPL Gc insuring a minimal protection level IP54 for a Gas application, and in an enclosure EPL Dc insuring a minimal ingress protection IP6X for Dust application in accordance with the requirements of EN 60079-0 : 2012, EN 60079-15 :2010 and EN 60079-31 : 2013 standards (\* See table of equipment description).

- The enclosure equipped with Magelis HMIGTU graphic terminals type HMIDT...\* or HMIDID...\* or HMIG...\* shall not be opened when an explosive atmosphere is present and shall be used in an environment of not more than Pollution Degree 2 as defined in IEC60664-1 (\* See table of equipment description).

- Magelis HMIGTU graphic terminals type HMIDT...\* or HMIDID...\* or HMIG...\* and Accessories type HMIZ...\* present a potential electrostatic charging hazard, safety precautions are defined in the instructions guide.

- Magelis HMIGTU graphic terminals type HMIDT...\* or HMIDID...\* or HMIG...\* and Accessories type HMIZ...\* must not be exposed at direct sunlight.

- The power supply cable, communication cables, USB or mini-USB connectors and RJ45 connectors must not be disconnected while circuit is live.

- The user shall take into consideration during the installation of graphic terminals Magelis HMIGTU graphic terminals type HMIDT...\* or HMIDID...\* or HMIG...\* and Accessories type HMIZ...\*, that the product underwent only a shock corresponding to an energy of a low risk at 2J.

The other conditions are stipulated in the instructions guide



# IECEX Certificate of Conformity

Certificate No: IECEx INE 15.0017X

Issue No: 3

Date of Issue: 2018-02-15

Page 4 of 4

## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

The changes of the issue 01 are regarding:

- Introduction of a new manufacturing location (WUXI Proface Electronics Co. Ltd).

The changes of the issue 02 are regarding:

- Introduction of new box unit, new power supply adapter and new multi-display adapters.
- Introduction of new internal power supply.
- Introduction of new internal LCD.

The changes of the issue 03 are regarding:

- The introduction of two new capacitive display units HMIDT752 and HMIDT952.
- Remove the communication module HMIZGECT.
- Update of the manufacturer's documentation.

## **Annex:**

[IECEX INE 15.0017X-03\\_Annex.pdf](#)



# IECEX Certificate of Conformity

Certificate No.: IECEX INE 15.0017X

Issue No.: 3

Page 1 of 2

Annex: IECEX INE 15.0017X-02\_Annex.pdf

## PARAMETERS RELATING TO THE SAFETY

The terminals have to be supplied with the following rated voltage:

	$U_n$ (V <sub>D.C.</sub> )
HMIG...*	12
HMIDT...* HMIDID...*	12 / 24
HMIZ...*	3.3 / 12 / 24

## MARKING

Marking has to be readable and indelible; it has to include the following indications:

**MAGELIS HMIGTU graphic terminal type HMIDT...\* or HMIDID...\* or HMIG...\* and accessories type HMIZ...\* except types HMIDT752 and HMIDT952:**

- SCHNEIDER ELECTRIC  
06516 CARROS  
FRANCE
- HMIDT...\* or HMIDID...\* or HMIG...\* and HMIZ...\* (\* see descriptive table of equipment below)
- IECEX INE 15.0017X
- (Serial number)
- Ex nA nC IIC T4 Gc
- Ex tc IIIC T135°C Dc
- Tamb: 0°C to +60°C
- **WARNINGS:**
  - DO NOT DISCONNECT WHEN CIRCUIT IS LIVE
  - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS.

**MAGELIS HMIGTU graphic terminal type HMIDT752 and HMIDT952:**

- SCHNEIDER ELECTRIC  
06516 CARROS  
FRANCE
- HMIDT752 or HMIDT952
- IECEX INE 15.0017X
- (Serial number)
- Ex nA IIC T4 Gc
- Ex tc IIIC T135°C Dc
- Tamb: 0°C to +55°C
- **WARNINGS:**
  - DO NOT DISCONNECT WHEN CIRCUIT IS LIVE
  - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS.



# IECEX Certificate of Conformity

Certificate No.: IECEX INE 15.0017X

Issue No.: 3

Page 2 of 2

Annex: IECEX INE 15.0017X-02\_Annex.pdf

Marking may be carried out in the language of the country of use.

The equipment has also to carry the marking normally stipulated by its construction standards.

## DESCRIPTIVE TABLE OF THE EQUIPMENT:

HMIDT...*	
Product	Description
HMIDT542	Display unit 10.4 inches, 12-24 V <sub>D.C.</sub> (resistive touch panel)
HMIDT642	Display unit 12.1 inches, 12-24 V <sub>D.C.</sub> (resistive touch panel)
HMIDT643	Display unit 12.1 inches, 12-24 V <sub>D.C.</sub> (resistive touch panel)
HMIDT732	Display unit 15.0 inches, 12-24 V <sub>D.C.</sub> (resistive touch panel)
HMIDT351	Display unit 7.0 inches, 12-24 V <sub>D.C.</sub> (resistive touch panel)
HMIDT551	Display unit 10.1 inches, 12-24 V <sub>D.C.</sub> (resistive touch panel)
HMIDT651	Display unit 12.1 inches, 12-24 V <sub>D.C.</sub> (resistive touch panel)
HMIDT752	Display unit 15.0 inches, 12-24 V <sub>D.C.</sub> (capacitive touch panel)
HMIDT952	Display unit 19.0 inches, 12-24 V <sub>D.C.</sub> (capacitive touch panel)

HMIDID...*	
Product	Description
HMIDID64DTD1	Display unit, 12.1 inches, 12-24 V <sub>D.C.</sub> (resistive touch panel)
HMIDID73DTD1	Display unit, 15.0 inches, 12-24 V <sub>D.C.</sub> (resistive touch panel)

HMIG...*	
Product	Description
HMIG3U	Box unit, 12 V <sub>D.C.</sub>
HMIG5U	Box unit, 12 V <sub>D.C.</sub>
HMIG5U2	Box unit, 12 V <sub>D.C.</sub>

HMIZ...*	
Product	Description
HMIZGPDP	Profibus/MPI Slave Unit, 3.3 V <sub>D.C.</sub>
HMIZGCAN	CANopen Slave Unit, 3.3 V <sub>D.C.</sub>
HMIZMDAEX	Power adaptor, 12-24 V <sub>D.C.</sub>
HMIZMDARX	Multidisplay adaptor, 3.3 V <sub>D.C.</sub>

All models may be followed by alphanumeric characters and there is no impact safety related critical components and constructions

## ROUTINE EXAMINATIONS AND TESTS

- None