# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION
## IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx INE 15.0017X**

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Certificate history:

Issue 4 (2019-03-19)
Issue 3 (2018-02-15)
Issue 2 (2017-03-02)
Issue 1 (2015-10-01)
Issue 0 (2015-05-22)

Status: **Current**

Issue No: 5

Date of Issue: 2021-03-09

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: **ec nC tc**

Marking: Ex ec nC IIC T4 Gc - All modules except HMIDT752 and HMIDT952
Ex ec IIC T4 Gc - HMIDT752 and HMIDT952 display unit

Ex tc IIIC T135°C Dc

Tamb : See descriptive table of equipment in annex

Approved for issue on behalf of the IECEx Certification Body:

Thierry HOUEIX

Position: Ex Certification Officer

Signature: (for printed version)

Digitally signed by Thierry HOUEIX

Date: 2021-03-09

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Certificate issued by:

**INERIS**
**Institut National de l'Environnement Industriel et des Risques**
**BP n2 / Parc Technologique ALATA**
**F-60550 Verneuil-en-Halatte**
**France**

INERIS
controlling risks for sustainable development

# IECEx Certificate of Conformity

Certificate No.: **IECEx INE 15.0017X** 

Date of issue: 2021-03-09 Issue No: 5

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

Additional manufacturing locations:

**PT SCHNEIDER ELECTRIC MANUFACTURING BATAM**
JL Beringin Lot 1, 4 and 208 Batamindo Industrial Park
Muka Kuning, BATAM INDONESIA, 29433
**Indonesia**

**WUXI Pro-face 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 equipment 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

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

**IEC 60079-15:2017** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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 Reports:

FR/INE/ExTR15.0023/00 FR/INE/ExTR15.0023/01 FR/INE/ExTR15.0023/02
FR/INE/ExTR15.0023/03 FR/INE/ExTR15.0023/04 FR/INE/ExTR15.0023/05

Quality Assessment Report:

FR/INE/QAR10.0006/11

# IECEx Certificate of Conformity



**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 ec 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 IEC 60079-0:2017, IEC 60079-7:2017, IEC 60079-15 :2017 and IEC 60079-31: 2013 standards. Graphic terminals shall be installed and used according with requirements indicated in the user manual.

- 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.

- 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…* shall be protected against UV light.

- 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.

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**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:

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

The changes of the issue 04 are regarding:

- Introduction of a new box unit HMIG2U.
- Application of IEC 60079-0:2017 standard.
- Addition of a new manufacturing location : PT SCHNEIDER ELECTRIC MANUFACTURING BATAM.
- Update of the manufacturer's documentation.

The changes of the issue 05 are regarding:

- Application of "ec" mode of protection instead of "nA".
- Application of IEC 60079-7:2017 and IEC 60079-15:2017 standards.
- The introduction of six new resistive display units HMIDT35X, HMIDT35XFH, HMIDT65X, HMIDT65XFH, HMIDT75X, HMIDT75XFH and two new box units: HMIG3X, HMIG3XFH.
- Introduction of accessorie J1939 unit HMIZXJ191
- Update of the manufacturer's documentation

**Annex:**

IECEx INE 15.0017X-05_Annex.pdf

# IECEx Certificate of Conformity

Certificate No.: IECEx INE 15.0017X

Issue No.: 5



Annex: IECEx INE 15.0017X-05_Annex.pdf

**PARAMETERS RELATING TO THE SAFETY**

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

| | Un ($V_{D.C.}$) |
|---|---|
| HMIG…* | 24 / 12 / 5 / 3.3 |
| HMIDT…* HMIDID…* | 24 / 12 / 5 / 3.3 |
| HMIZ…* | 24 / 12 / 5 / 3.3 |

**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…*
- IECEx INE 15.0017X
- (Serial number)
- Ex ec nC IIC T4 Gc
- Ex tc IIIC T135°C Dc
- $T_{amb}$: (*)
- ***WARNINGS:***
  - DO NOT DISCONNECT WHEN CIRCUIT IS LIVE
  - POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS.

(* *see descriptive table of equipment below*)

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

- SCHNEIDER ELECTRIC
  06516 CARROS
  FRANCE
- HMIDT…* or HMIDID…* or HMIG…* and HMIZ…*
- IECEx INE 15.0017X
- (Serial number)
- Ex ec 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.

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.

**ROUTINE EXAMINATIONS AND TESTS**

None

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Annex: IECEx INE 15.0017X-05_Annex.pdf

**DESCRIPTIVE TABLE OF EQUIPMENT:**

| **HMIDT…*** | | |
|---|---|---|
| Product | Description | Ambient temperature range |
| HMIDT542 | Display unit 10.4 inches, 12-24 $V_{D.C.}$ (resistive touch panel) | 0°C to + 60°C |
| HMIDT642 | Display unit 12.1 inches, 12-24 $V_{D.C.}$ (resistive touch panel) | 0°C to + 60°C |
| HMIDT643 | Display unit 12.1 inches, 12-24 $V_{D.C.}$ (resistive touch panel) | 0°C to + 60°C |
| HMIDT732 | Display unit 15.0 inches, 12-24 $V_{D.C.}$ (resistive touch panel) | 0°C to + 60°C |
| HMIDT351 | Display unit 7.0 inches, 12-24 $V_{D.C.}$ (resistive touch panel) | 0°C to + 60°C |
| HMIDT551 | Display unit 10.1 inches, 12-24 $V_{D.C.}$ (resistive touch panel) | 0°C to + 60°C |
| HMIDT651 | Display unit 12.1 inches, 12-24 $V_{D.C.}$ (resistive touch panel) | 0°C to + 60°C |
| HMIDT752 | Display unit 15.0 inches, 12-24 $V_{D.C.}$ (capacitive touch panel) | 0°C to + 55°C |
| HMIDT952 | Display unit 19.0 inches, 12-24 $V_{D.C.}$ (capacitive touch panel) | 0°C to + 55°C |
| **HMIDT35X** | Display unit 7.0 inches, 12-24 $V_{D.C.}$ (resistive touch panel) | -30°C to + 65°C |
| **HMIDT65X** | Display unit 12.0 inches, 12-24 $V_{D.C.}$ (resistive touch panel) | -30°C to + 70°C |
| **HMIDT75X** | Display unit 15.0 inches, 12-24 $V_{D.C.}$ (resistive touch panel) | -20°C to + 60°C |
| **HMIDT35XFH** | Display unit 7.0 inches, 12-24 $V_{D.C.}$ (resistive touch panel) full coated | -30°C to + 65°C |
| **HMIDT65XFH** | Display unit 12.0 inches, 12-24 $V_{D.C.}$ (resistive touch panel) full coated | -30°C to + 70°C |
| **HMIDT75XFH** | Display unit 15.0 inches, 12-24 $V_{D.C.}$ (resistive touch panel) full coated | -20°C to + 60°C |

| **HMIDID…*** | | |
|---|---|---|
| Product | Description | Ambient temperature range |
| HMIDID64DTD1 | Display unit, 12.1 inches, 12-24 $V_{D.C.}$ (resistive touch panel) | 0°C to + 60°C |
| HMIDID73DTD1 | Display unit, 15.0 inches, 12-24 $V_{D.C.}$ (resistive touch panel) | 0°C to + 60°C |

| **HMIG…*** | | |
|---|---|---|
| Product | Description | Ambient temperature range |
| HMIG2U | Box unit, 12 $V_{D.C.}$ | 0°C to + 60°C |
| HMIG3U | Box unit, 12 $V_{D.C.}$ | 0°C to + 60°C |
| HMIG5U | Box unit, 12 $V_{D.C.}$ | 0°C to + 60°C |
| HMIG5U2 | Box unit, 12 $V_{D.C.}$ | 0°C to + 60°C |
| **HMIG3X** | Box unit, 12 $V_{D.C.}$ | -30°C to + 70°C |
| **HMIG3XFH** | Box unit, 12 $V_{D.C.}$ full coated | -30°C to + 70°C |

| **HMIZ…*** | | |
|---|---|---|
| Product | Description | Ambient temperature range |
| HMIZGPDP | Profibus/MPI Slave Unit, 3.3 $V_{D.C.}$ | 0°C to + 60°C |
| HMIZGCAN | CANopen Slave Unit, 3.3 $V_{D.C.}$ | 0°C to + 60°C |
| HMIZMDAEX | Power adaptor, 12-24 $V_{D.C.}$ | 0°C to + 60°C |
| HMIZMDARX | Multidisplay adaptor, 3.3 $V_{D.C.}$ | 0°C to + 60°C |
| **HMIZXJ19** | Accessories J1939 Unit, 3.3 $V_{D.C.}$ | -30°C to + 70°C |

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