



# 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 16.0057X Issue No: 0 Certificate history:  
Issue No. 0 (2017-03-03)

Status: **Current** Page 1 of 3

Date of Issue: **2017-03-03**

Applicant: **Schneider Automation SAS**  
Site Horizon, 8ème rue, ZI Carros  
F - 06516, Carros cedex  
**France**

Equipment: **Advanced Terminals type MAGELIS GTO**  
*Optional accessory:*

Type of Protection: **nA nC tc**

Marking:  
Ex nA nC IIC T5 Gc  
Ex tc III C T100°C Dc

Approved for issue on behalf of the IECEx  
Certification Body:

Thierry HOUEIX

Position:

Ex Certification Officer

Signature:  
(for printed version)



Date:

2017-03-30

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



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Manufacturer: **Schneider Electric**  
Site Horizon, 8ème rue, ZI Carros  
F - 06516, Carros cedex  
**France**

Additional Manufacturing location(s):

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/ExTR16.0059/00](#)

Quality Assessment Report:

[FR/INE/QAR10.0006/05](#)



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## Schedule

### EQUIPMENT:

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

Advanced terminals type MAGELIS GTO are user interfaces designed for operator control and monitoring machines. They are intended to be mounted on electric cabinet and include a front module with touch-screen and a rear module with CPU. They are non-sparking during conditions of normal operation and are protected by protection modes Ex nA and Ex tc except the touch-screen display which is protected by Ex nC as being hermetically sealed. Advanced terminals type MAGELIS GTO are designed to be 24VDC powered.

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

The equipment is intended to be used in an operating range from 0°C to 50°C.

Advanced terminals type MAGELIS GTO have to be installed in an additional enclosure insuring a minimal protection level IP54 for a Gc equipment, IP6X for Dc equipment in accordance with the requirements of IEC 60079-0:2011, IEC 60079-15:2010 and IEC 60079-31:2013 standards.

The enclosure equipped with advanced terminals type MAGELIS GTO have to be certified and shouldn't be opened when an explosive atmosphere is present.

During the installation, the user will take into consideration that the equipment underwent only a shock corresponding to energy of a low risk.

Advanced terminals type MAGELIS GTO present a potential electrostatic charging hazard, safety precautions are defined in the instructions guide.

Advanced terminals type MAGELIS GTO do not have to be exposed at direct sunlight.

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

Fuses do not have to be changed in presence of explosive atmospheres.

The other conditions are stipulated in the instructions guide.

### Annex:

[IECEx INE 16.0057X-00\\_Annex.pdf](#)



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## PARAMETERS RELATING TO THE SAFETY

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

	$U_n$ (V <sub>D.C.</sub> )
HMIGTO...*	24

## MARKING

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

- SCHNEIDER ELECTRIC  
06516 CARROS  
FRANCE
- HMIGTO...\* (\* see descriptive table of equipment below)
- IECEx INE 16.0057X
- (Serial number)
- Ex nA nC IIC T5 Gc
- Ex tc IIIC T100°C Dc
- T<sub>amb</sub>: 0°C to +50°C or 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.

## **DESCRIPTIVE TABLE OF EQUIPMENT:**

<b>MAGELIS GTO</b>		
Product HMIGTO...*	Description	Ambient temperature range
HMIGTO1300	Display 3"5 QVGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, 6 function keys, Flash Memory, 2 serial lines and 2 USB ports	0°C to + 50°C
HMIGTO1310	Display 3"5 QVGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, 6 function keys, Flash Memory, One serial line, LAN port and 2 USB ports	0°C to + 50°C
HMIGTO2300	Display 5"7 QVGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory (Smaller size), 2 serial lines, LAN port and 2 USB ports	0°C to + 50°C
HMIGTO2310	Display 5"7 QVGA-TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory, SD card slot, 2 serial lines, LAN port and 2 USB ports	0°C to + 55°C
HMIGTO2315	Display 5"7 QVGA TFT 65K colours, Touch Screen (Analogue Touch Panel), Stainless Steel Front Face, 24V DC supply, Flash Memory, SD card slot, 2 serial lines, LAN port and 2 USB ports	0°C to + 55°C



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<b>MAGELIS GTO</b>		
Product HMIGTO...*	Description	Ambient temperature range
HMIGTO3510	Display 7"0 WVGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, 8 function keys, Flash Memory (Smaller size), SD card slot, 2 serial lines, LAN port and 2 USB ports	0°C to + 50°C
HMIGTO4310	Display 7"5 VGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory, SD card slot, 2 serial lines, LAN port and 2 USB ports	0°C to + 55°C
HMIGTO5310	Display 10"4 VGA TFT 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory, SD card slot, 2 serial lines, LAN port and 2 USB ports	0°C to + 55°C
HMIGTO5315	Display 10"4 VGA TFT 65K colours, Touch Screen (Analogue Touch Panel), Stainless Steel Front Face, 24V DC supply, Flash Memory, SD card slot, 2 serial lines, LAN port and 2 USB ports	0°C to + 55°C
HMIGTO6310	Display 12"1 SVGA 65K colours, Touch Screen (Analogue Touch Panel), 24V DC supply, Flash Memory, SD card slot, 2 serial lines, LAN port and 2 USB ports	0°C to + 55°C
HMIGTO6315	Display 12"1 SVGA TFT 65K colours, Touch Screen (Analogue Touch Panel), Stainless Steel Front Face, 24V DC supply, Flash Memory, SD card slot, 2 serial lines, LAN port and 2 USB ports	0°C to + 55°C

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

## ROUTINE EXAMINATIONS AND TESTS

None