



# 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 LCI 10.0045X** issue No.: **3**  
Status: **Current**  
Date of Issue: **2012-11-20** Page 1 of 5

Certificate history:  
Issue No. 3 (2012-11-20)  
Issue No. 2 (2012-8-27)  
Issue No. 1 (2011-10-4)  
Issue No. 0 (2010-12-10)

Applicant: **Schneider Electric**  
48 Steacie Drive  
Kanata  
Ontario K2K 2A9  
Canada

Electrical Apparatus: **Wireless field transmitters**  
Optional accessory:

Type of Protection: **Intrinsic safety "ia"**

Marking: Schneider Electric  
Address : ...  
Type : AC-xxxx (1)  
Serial number : ...  
Year of construction : ...  
Ex ia IIC T3 Ga  
IECEXLCI 10.0045 X  
T amb : -40°C to + 85°C  
Reference of the battery : SSABatteryPackCCell or 309007 or 309011 or 309035 or 309045  
(2)  
U<sub>o</sub> = ...V; I<sub>o</sub> = ... mA; C<sub>o</sub> = ... μF; L<sub>o</sub> = ... H (3)  
U<sub>i</sub> = ...V; I<sub>i</sub> = ...mA; C<sub>i</sub> = ... nF; L<sub>i</sub> = ... (3)  
(1) completed with the model  
(2) reference to battery pack in function of model  
(3) completed in function of model

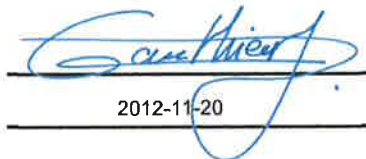
Approved for issue on behalf of the IECEx  
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:  
(for printed version)

  
2012-11-20

Date:

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:

**Laboratoire Central des Industries Electriques (LCIE)**  
33 Avenue du General Leclerc  
FR-92260 Fontenay-aux-Roses  
France

Documents relative to LCIE certification activities (Certificates,  
QARs, ExTRs) can be registered under the references "LCI" or  
"LCIE".





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Manufacturer: **Schneider Electric**  
48 Steacie Drive  
Kanata  
Ontario K2K 2A9  
Canada

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:

**IEC 60079-0 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition: 5

**IEC 60079-11 : 2011-06** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition: 6.0

*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/LCI/ExTR10.0050/00](#)

[FR/LCI/ExTR10.0050/01](#)

[FR/LCI/ExTR10.0050/02](#)

#### Quality Assessment Report:

[CA/CSA/QAR07.0001/00](#)



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## Schedule

### EQUIPMENT:

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

The Accutech-series is comprised of self-contained, self-powered field units providing process data to a centralized base radio through a spread-spectrum, frequency hopping wireless connection. Networks of up to 100 field units can be created and polled by a single base radio using the secure, proprietary "Industrial Wireless" protocol, with a typical range between field unit and base radio of up to 5,000-ft (~1500 m). Capability to scale up to as many as 16 wireless instrumentation LANs.

Certified models :

AC-GP10 : TBUAGP..., AC-AP10 : TBUAAP..., AC-GL10 : TBUAGL..., AC-SL10 : TBUASL...

AC-DP20 : TBUADP..., AC-RT10 : TBUART..., AC-TC10 : TBUATC..., AC-AI10 : TBUAAI...

AC-AV10 : TBUAAV..., AC-SI10 : TBUASI..., AC-TM10 : TBUATM..., AC-AM20 : TBUAAM

### CONDITIONS OF CERTIFICATION: YES as shown below:

The apparatus can be only connected to intrinsic safety certified equipments. These combinations must be compatible as regard the intrinsic safety rules.

The apparatus must be connected according to drawings included in the technical file.

According to the type, the apparatus must be only powered by one of following batteries :

SSABatteryPackCCell or 309007 or 309011 or 309035 or 309045.

The apparatus shall not be submitted to mechanic impacts or frictions.



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

Issue 1 : New company name : Schneider Electric

Adding following part numbers :

AC-GP10 : TBUAGP..., AC-AP10 : TBUAAP..., AC-GL10 : TBUAGL..., AC-SL10 : TBUASL...

AC-DP20 : TBUADP..., AC-RT10 : TBUART..., AC-TC10 : TBUATC..., AC-AI10 : TBUAAI...

AC-AV10 : TBUAAV..., AC-SI10 : TBUASI..., AC-TM10 : TBUATM..., AC-AM20 : TBUAAM

Issue 2 : normative update according to IEC 60079-0 Ed.5 and IEC 60079-11 Ed.6.

Issue 3 : Correction (Addition of the battery reference 309045, assessed during issue 02 but not mentioned on the certificate).



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## Additional information:

### Electrical parameters :

Model TM10 or TBUATM:  $U_o = 3.9V$ ;  $I_o = 1mA$ ;  $C_o = 95\mu F$ ;  $L_o = 5H$ ;  $U_i = 5V$ ;  $I_i = 10mA$ ;  $C_i = 5\mu F$ ;  $L_i = 0$

Model AI10 or TBUAAI: Terminals J1-1/J1-2 and J1-5/J1-6 :  $U_o = 0.1V$ ;  $I_o = 6.0 mA$ ;  $C_o = 90 \mu F$ ;  $L_o = 1 H$

$U_i = 30V$ ;  $I_i = 100mA$ ;  $C_i = 0$ ;  $L_i = 0$ ,

Terminals J2-1/J2-2 and J2-3/J2-4 :  $U_o = 5.5V$ ;  $I_o = 1.0 mA$ ;  $C_o = 57 \mu F$ ;  $L_o = 1 H$

$U_i = 5.5V$ ;  $I_i = 100mA$ ;  $C_i = 22 nF$ ;  $L_i = 0$

Terminals J3-1/J3-2 and J3-3/J3-4 :  $U_o = 5.5V$ ;  $I_o = 2.2 mA$ ;  $C_o = 58 \mu F$ ;  $L_a = 1 H$

Model AV10 or TBUAAV: Terminals J1-1/J1-2 and J1-5/J1-6 :  $U_o = 4.2V$ ;  $I_o = 1.0 mA$ ;  $C_o = 90 \mu F$ ;  $L_o = 1 H$

$U_i = 30V$ ;  $I_i = 100mA$ ;  $C_i = 0$ ;  $L_i = 0$

Terminals J2-1/J2-2 and J2-3/J2-4 :  $U_o = 5.5V$ ;  $I_o = 1.0 mA$ ;  $C_o = 57 \mu F$ ;  $L_o = 1 H$

$U_i = 5.5V$ ;  $I_i = 100mA$ ;  $C_i = 22 nF$ ;  $L_i = 0$

Terminals J3-1/J3-2 and J3-3/J3-4 :  $U_o = 5.5V$ ;  $I_o = 2.2 mA$ ;  $C_o = 58 \mu F$ ;  $L_o = 1 H$

Model SI10 or TBUASI: Terminals J2-1/J2-2 and J2-3/J2-4 :

For Group IIC:  $U_o = 5.5V$ ;  $I_o = 1.0 mA$ ;  $C_o = 57 \mu F$ ;  $L_o = 1 H$ ;  $U_i = 5.5V$ ;  $I_i = 100mA$ ;  $C_i = 22 nF$ ;  $L_i = 0$

For Groups IIB \*:  $U_o = 8.5V$ ;  $I_o = 1.0 mA$ ;  $C_o = 60 \mu F$ ;  $L_o = 1 H$ ;  $U_i = 8.5V$ ;  $I_i = 100mA$ ;  $C_i = 22 nF$ ;  $L_i = 0$

\*Note: When using these parameters, both the SI10 and the connected devices must be installed in Group IIB only.

Terminals J3-1/J3-2 and J3-3/J3-4 :

For Group IIC:  $U_o = 5.5V$ ;  $I_o = 1.0 mA$ ;  $C_o = 57 \mu F$ ;  $L_o = 1 H$ ;  $U_i = 5.5V$ ;  $I_i = 100mA$ ;  $C_i = 0$ ;  $L_i = 0$

For Group IIB\*:  $U_o = 8.5V$ ;  $I_o = 1.0 mA$ ;  $C_o = 60 \mu F$ ;  $L_o = 1 H$ ;  $U_i = 8.5V$ ;  $I_i = 100mA$ ;  $C_i = 0$ ;  $L_i = 0$

\*Note: When using these parameters, both the SI10 and the connected devices must be installed in Group IIB only.

Model RT10 or TBUART: Terminals J1-1/J1-2/J1-3/J1-4 :  $U_o = 5.5V$ ;  $I_o = 2.0 mA$ ;  $C_o = 8 \mu F$ ;  $L_o = 1 H$

Terminals J2-1/J2-2 and J2-3/J2-4 :  $U_o = 5.5V$ ;  $I_o = 1.0 mA$ ;  $C_o = 57 \mu F$ ;  $L_o = 1 H$

$U_i = 5.5V$ ;  $I_i = 100mA$ ;  $C_i = 22 nF$ ;  $L_i = 0$

Terminals J3-1/J3-2 and J3-3/J3-4 :  $U_o = 5.5V$ ;  $I_o = 2.2 mA$ ;  $C_o = 58 \mu F$ ;  $L_o = 1 H$

Model TC10 of TBUATC: Terminals J1-1/J1-2 and J1-5/J1-6 :  $U_o = 5.5V$ ;  $I_o = 6.0 mA$ ;  $C_o = 57 \mu F$ ;  $L_o = 1 H$

Terminals J2-1/J2-2 and J2-3/J2-4 :  $U_o = 5.5V$ ;  $I_o = 1.0 mA$ ;  $C_o = 57 \mu F$ ;  $L_o = 1 H$

$U_i = 5.5V$ ;  $I_i = 100mA$ ;  $C_i = 22 nF$ ;  $L_i = 0$

Terminals J3-1/J3-2 and J3-3/J3-4 :  $U_o = 5.5V$ ;  $I_o = 2.2 mA$ ;  $C_o = 58 \mu F$ ;  $L_o = 1 H$

Model GP10 or TBUAGP, GL10 or TBUAGL, AP10 or TBUAAP, SL10 or TBUASL, DP20 or TBUADP: Terminals J2-1/J2-2 and J2-3/J2-4 :  $U_o = 5.5V$ ;  $I_o = 1.0 mA$ ;

$C_o = 57 \mu F$ ;  $L_o = 1 H$   $U_i = 5.5V$ ;  $I_i = 100mA$ ;  $C_i = 22 nF$ ;  $L_i = 0$

Terminals J3-1/J3-2 and J3-3/J3-4 :  $U_o = 5.5V$ ;  $I_o = 2.2 mA$ ;  $C_o = 58 \mu F$ ;  $L_o = 1 H$