



# 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 11.0048X** issue No.:1

Certificate history:  
Issue No. 1 (2011-9-8)  
Issue No. 0 (2011-8-3)

Status: **Current**

Date of Issue: **2011-09-08** Page 1 of 4

Applicant: **ABB Inc.**  
843 N. Jefferson St.  
Lewisburg, WV 24901  
**United States of America**

Electrical Apparatus: **pH/ORP/pION transmitter APA 592 and conductivity transmitter ACA592**  
Optional accessory:

Type of Protection: **Ex nA and Ex tD**

Marking: **ABB**  
**Address**  
**Type: AxA592**  
**Serial number:**  
**Year of construction:**  
**Ex nA IIC T4**  
**Ex tD A22 IP66 T135°C**  
**-20°C ≤ Tamb ≤ +60°C**  
**IECEX LCI 11.0048X**  
**WARNING: DO NOT OPEN WHEN ENERGIZED**

Approved for issue on behalf of the IECEx  
Certification Body:

Marc GILLAUX

Position:

Certification Manager

Signature:  
(for printed version)

**Michel EQUI**

Date:

**08 SEP. 2011**

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**.

Certificate issued by:

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





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Manufacturer: **ABB Inc.**  
843 N. Jefferson St.  
Lewisburg, WV 24901  
**United States of America**

#### 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 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-15 : 2005-03</b> Edition: 3	Electrical apparatus for explosive gas atmospheres Part 15: Construction, test and Marking of Type of Protection "n" electrical apparatus
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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/ExTR11.0049/00

#### Quality Assessment Report:

NL/KEM/QAR09.0015/01



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## Schedule

### EQUIPMENT:

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

Apparatus APA592 is a pH/ORP/pION transmitter and ACA592 is a conductivity transmitter. They deliver a current in the range 4-20mA proportional to the level detected by sensor. The ambient temperature range is -20°C to +60°C. Transmitter is supplied by a DC voltage source 42V max. and has a maximum current draw of 23 mA.

Routine test: each product shall be submitted to the dielectric test at 500V as defined in the clause §6.8 of the standard EN60079-15 (2005).

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

Ambient temperature range: from -20°C to +60°C.



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

Issue 1: correction of presentation.

## IECEX Technical Report: FR/LCI/ExTR11.0049/00 details

### ExTR :

ExTR Reference Number*: (automatic numbering)	FR/LCI/ExTR11.0049/00
Status*:	Issued
ExTR Free Reference Number*:	106457-611092
Date of Issue*: (yyyy-mm-dd)	2011-08-02
List of Standards Covered*:	IEC 60079-0 (Ed.4.0); IEC 60079-14 (Ed.3); IEC 61241-0 (Ed.1); IEC 61241-1 (Ed.1)
Issuing ExTL*:	LCI - Laboratoire Central des Industries Electriques (LCIE)
Endorsing ExCB*:	LCI - Laboratoire Central des Industries Electriques (LCIE)
Manufacturer*:	ABB Inc. 843 N.Jefferson St. Lewisburg, WV 24901
Country of Manufacture*:	United States of America
Ex Protection*:	Ex nA and Ex tD
Ratings:	Voltage < 42VDC, current < 23 mA
Product*:	pH/ORP/plON transmitter APA and conductivity transmitter ACA
Model Reference*:	APA592 and ACA592
Related IECEx Certificates:	<a href="#">IECEX LCI 11.0048X issue: 0 [Current]</a> <a href="#">IECEX LCI 11.0048X issue: 1 [Current]</a>
Comment:	
Attachment:	