



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

Certificate No.: IECEx LCIE 13.0065X issue No.:1
Status: **Current**
Date of Issue: **2015-11-09** Page 1 of 4

Certificate history:
Issue No. 1 (2015-11-9)
Issue No. 0 (2013-11-29)

Applicant: **PCB Piezotronics**
3425 Walden Avenue,
Depew, New York 14043
United States of America

Electrical Apparatus: **Pressure Sensor**
Optional accessory: Type : 1xxAyyy, 1xxByyy or 1xxMyyy

Type of Protection: **Ex ia**

Marking: PCB Piezotronics
Address : ...
Type : 1xxAyyy, 1xxByyy or 1xxMyyy
Serial number : ...
Year of construction : ...
Ex ia IIC T4 Ga
IECEX LCIE 13.0065 X
Ui : 30 V, Ii : 200 mA, Pi : 1 W, Li : 0, Ci : 5 nF
Ambient temperature : - 54°C to +121°C

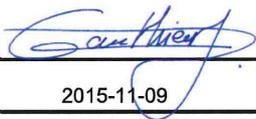
Approved for issue on behalf of the IECEx
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:
(for printed version)



2015-11-09

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".



LCIE



IECEx Certificate of Conformity

Certificate No.: IECEx LCIE 13.0065X

Date of Issue: 2015-11-09

Issue No.: 1

Page 2 of 4

Manufacturer: **PCB Piezotronics**
3425 Walden Avenue,
Depew, New York 14043
United States of America

Additional Manufacturing location
(s):

**PCB Piezotronics of
North Carolina Inc**
10869 Hwy 903
Halifax, NC 27839
United States of America

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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-11 : 2011 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/LCIE/ExTR13.0060/00

FR/LCIE/ExTR15.0119/00

Quality Assessment Report:

NL/DEK/QAR14.0004/01



IECEx Certificate of Conformity

Certificate No.: IECEx LCIE 13.0065X

Date of Issue: 2015-11-09

Issue No.: 1

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The pressure sensors 1xxAyyy, 1xxByyy, 1xxMyyy are comprised of a piezo-crystal assembly, a charge amplifier and a connector. The assembly is mounted inside a metallic enclosure.

All models use one metal enclosure to house both the piezo-crystal and the charge amplifier. The models differ from each other only in minor amplifier circuitry component values and in minor mechanical mounting variations.

The "xx" in the model number denotes frequency response.

The "yyy" in the model number denotes minor mechanical mounting variations, variations in pressure range and variations in low frequency response.

CONDITIONS OF CERTIFICATION: YES as shown below:

Ambient temperature : - 54°C to +121°C

The apparatus must only be connected to a certified associated intrinsically safe equipment. This combination must be compatible as regards intrinsic safety rules (U_i : 30 V, I_i : 200 mA, P_i : 1 W, L_i : 0, C_i : 5 nF).

Concerning the use of the Pressure Sensor, see instruction manual of the manufacturer.



IECEx Certificate of Conformity

Certificate No.: IECEx LCIE 13.0065X

Date of Issue: 2015-11-09

Issue No.: 1

Page 4 of 4

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

Issue 01 : Modification of QAR



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

Certificate No.: IECEx LCIE 13.0065X issue No.: 0 Certificate history: _____

Status: **Current**

Date of Issue: **2013-11-29** Page 1 of 3

Applicant: **PCB Piezotronics Inc**
3425 Walden Avenue,
Depew, New York 14043
United States of America

Electrical Apparatus: **Pressure Sensor**
Optional accessory:

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

Marking: PCB
Address : ...
Type : 1xxAyyy, 1xxByyy or 1xxMyyy
Serial number : ...
Year of construction : ...
Ex ia IIC T4 Ga
IECEX LCIE 13.0065 X
Ui : 30 V, Ii : 200 mA, Pi : 1 W, Li : 0, Ci : 5 nF
Ambient temperature : - 54°C to +121°C

Approved for issue on behalf of the IECEx Certification Body: Julien GAUTHIER

Position: Certification Officer

Signature:
(for printed version)



2013-11-29

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.

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".





IECEX Certificate of Conformity

Certificate No.: IECEX LCIE 13.0065X

Date of Issue: 2013-11-29

Issue No.: 0

Page 2 of 3

Manufacturer: **PCB Piezotronics Inc**
3425 Walden Avenue,
Depew, New York 14043
United States of America

Additional Manufacturing location
(s):

**PCB Piezotronics of
North Carolina Inc**
10869 Hwy 903
Halifax, NC 27839
United States of America

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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-11 : 2011 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/LCIE/ExTR13.0060/00

Quality Assessment Report:

CA/CSA/QAR09.0018/02



IECEx Certificate of Conformity

Certificate No.: IECEx LCIE 13.0065X

Date of Issue: 2013-11-29

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The pressure sensors 1xAyyy, 1xByyy, 1xMyyy are comprised of a piezo-crystal assembly, a charge amplifier and a connector. The assembly is mounted inside a metallic enclosure.

All models use one metal enclosure to house both the piezo-crystal and the charge amplifier. The models differ from each other only in minor amplifier circuitry component values and in minor mechanical mounting variations.

The "xx" in the model number denotes frequency response.

The "yyy" in the model number denotes minor mechanical mounting variations, variations in pressure range and variations in low frequency response.

CONDITIONS OF CERTIFICATION: YES as shown below:

Ambient temperature : - 54°C to +121°C

The apparatus must only be connected to a certified associated intrinsically safe equipment. This combination must be compatible as regards intrinsic safety rules (U_i : 30 V, I_i : 200 mA, P_i : 1 W, L_i : 0, C_i : 5 nF).

Concerning the use of the Pressure Sensor, see instruction manual of the manufacturer.