



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 LCI 08.0019 issue No.: 0 Certificate history:

Status: Current

Date of Issue: 2008-05-05 Page 1 of 4

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

Electrical Apparatus: **PIR3502 / PUV3402 Process Photometer**
Optional accessory:

Type of Protection: **px ib**

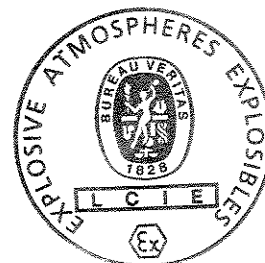
Marking: **Ex px d [ib]ib IIB+H2 T2, T3 or T4**

Approved for issue on behalf of the IECEx
Certification Body:

Marc GILLAUX

Position:

Ex Certification Manager



Signature:
(for printed version)

bo H. CERVELLO ATEX Products Director
Cervello 2008/05/05

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





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Manufacturer: **ABB Inc.**
843, North Jefferson Street,
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:

IEC 60079-0 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2001 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-2 : 2001 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 2: Pressurized enclosures 'p'

*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/ExTR08.0025/00

Quality Assessment Report:

CA/CSA/QAR07.0002/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The PIR3502 and PUV3402 process photometers provide on-line measurements of gas or liquid components in process stream. The device comprises three enclosures : the Source, Detector and Purge Controller. Mounted between the Source and Detector enclosures is the sample cell. The gas stream is passed through the sample cell and IR or UV light passes through the cell from the Source to the Detector, thereby analysing the moisture in the gas.

The PIR3502 / PUV3402 Process Photometer, is pressurized with 'px' protection. An "X-Purge box", mounted below the detector enclosure, is a flameproof enclosure 'd' and included the pressurisation control system.

Model/type reference :

PIR3502 – Process IR photometer

PUV3402 – Process UV photometer

Dimensions :

10 in. W x 10 in. D x 13 in. H

(250 mm W x 250 mm D x 330 mm H)

CONDITIONS OF CERTIFICATION: NO



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EQUIPMENT(continued):

Ingress protection :
IP52

Rated ambient temperature range (°C) :
0°C to 45°C

Rating :
115/230 Vac, 690 VA max

Marking:
ABB Inc – Lewisburg

Type

Serial number

Year of manufacture

Certificate number

Ex px de [ib]ib IIB+H2 T4, T3 or T2

Protective gas : Continuous flow, air

Total internal free volume : 42L

Minimum air supply flow rate : 30 L/Min

Minimum overpressure : 0,5 mbar

Maximum leakage flow rate : 12,7 L/Min

Maximum overpressure : 2,5 mbar

Purge wait time : 22 Min at 50 Hz / 19 Min at 60 Hz

Ambient temperature : 0 to 45°C

Enclosures shall not be opened unless area is known to be free of any flammable materials.

Routine verifications and tests :

- IEC60079-2 / §17.1 : The performance of safety devices shall be verified.
- IEC60079-2 / §17.2 : The measured flow rate shall be not greater than the maximum leakage flow rate specified by the manufacturer.