



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 PTB 15.0009X | issue No.:0 | Certificate history: |
| Status: | Current | | |
| Date of Issue: | 2015-03-18 | Page 1 of 3 | |
| Applicant: | ABB Automation Products GmbH Schillerstraße 72 32425 Minden Germany | | |
| Electrical Apparatus: | Wireless temperature sensor, type TSP3a1-W bb ccc ... dd ee ... and temperature transducer, type TTF300-W aa b ... | | |
| Optional accessory: | | | |
| Type of Protection: | General requirements, Intrinsic Safety | | |
| Marking: | Ex ia IIC T4 Ga | | |
| Approved for issue on behalf of the IECEx Certification Body: | Dr.-Ing. U. Johannsmeyer | | |
| Position: | Head of department "Explosion Protection in Sensor Technology and Instrumentation" | | |
| Signature: (for printed version) |  <hr/> | | |
| Date: | 2015-04-01 <hr/> | | |

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:

Physikalisch-Technische Bundesanstalt (PTB)
 Bundesallee 100
 38116 Braunschweig
 Germany





IECEx Certificate of Conformity

Certificate No.: IECEx PTB 15.0009X
Date of Issue: 2015-03-18 Issue No.: 0
Page 2 of 3

Manufacturer: **ABB Automation Products GmbH**
Schillerstraße 72
32425 Minden
Germany

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:

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:
[DE/PTB/ExTR13.0062/00](#) [DE/PTB/ExTR13.0062/01](#) [DE/PTB/ExTR14.0066/00](#)

Quality Assessment Report:

[DE/TUN/QAR06.0012/04](#)



IECEx Certificate of Conformity

Certificate No.: IECEx PTB 15.0009X

Date of Issue: 2015-03-18

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The wireless temperature sensor, type TSP3a1-W bb ccc ... dd ee ... and the temperature measuring transducer, type TTF300-W aa b ... are intrinsically safe equipment intended for autarkic temperature measurement with integrated (TSP3a1-W bb ccc ... dd ee ...) or externally connectable (TTF300-W aa b ...) resistance sensors or thermo-elements. The measured values are transmitted wireless using the WirelessHART® radio standard. Power supply is realized by a replaceable primary battery and type TSP3a1-W bb ccc ... dd ee ... is additionally provided with an optional Energy-Harvester using the temperature difference between process connection and ambient. The enclosure of the equipment can be made alternatively from aluminium or stainless steel. Furthermore an LCD-display is applicable. An intrinsically safe interface in the equipment is intended for connection of certified HART-configuration terminals.

CONDITIONS OF CERTIFICATION: YES as shown below:

Variants designed with aluminium (TSP3x1-W A6 ccc ... Ld ee ... or TSP3x1-W A6 ccc ... dd W3 ... or TSP341-W A6 Y11 ... dd ee ... or TTF300-W A6 A ... or TTF300-W A6 C ...) shall be additionally protected mechanically when they are installed in hazardous areas requiring the application of EPL-Ga equipment.

Annex: [IECEx_PTB_1500090_attachment.pdf](#)