



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx PRE 19.0044X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-02-13

Applicant: **ABB AS**
Ole Deviks vei 10
NO-0666 Oslo
Norway

Equipment: **ABB Ability™ Smart Sensor**

Optional accessory:

Type of Protection: **Equipment protection by intrinsic safety "i"**

Marking: **Ex ia IIC T4 Ga -40°C≤Tamb≤+85°C**
Ex ia IIIC T157°C Da -40°C≤Tamb≤+85°C
Ex ia I Ma -40°C≤Tamb≤+85°C

Approved for issue on behalf of the IECEx
Certification Body:

Asle Kaastad

Position:

Certification Manager

Signature:
(for printed version)

Date:

2020-02-13

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 www.iecex.com or use of this QR Code.



Certificate issued by:

DNV GL Presafe AS
Veritasveien 3
1363 Høvik
Norway





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Page 2 of 3

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Manufacturer: **ABB AS**
Ole Deviks vei 10
NO-0666 Oslo
Norway

Additional
manufacturing
locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

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

This Certificate **does not** indicate compliance with 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:

[NO/PRE/ExTR19.0044/00](#)

Quality Assessment Report:

[NO/NEM/QAR13.0002/04](#)



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Page 3 of 3

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

ABB Ability™ Smart Sensor is a generic battery powered wireless condition monitoring sensor that collects and analyses measurements, optimized for most kind of machinery. Depending of variant, it measures vibration, magnetic field, acoustic and ultrasonic sound, machine skin and ambient temperature etc. and utilizes the results for determination of machine condition, need for service and support of remaining lifetime prediction.

Type designation

Smart Sensor xCHC

The letter "x" indicates the product type "B" or "H"

BCHC	High performance, long life, Bluetooth host communication.
HCHC	High performance, long life, WirelessHART host communication.

Electrical Data

Battery powered 3,6VDC

(Tadiran cell type C, model TL-4920)

Degrees of protection (IP Code)

IP66 and IP67

SPECIFIC CONDITIONS OF USE: YES as shown below:

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS