




EU-TYPE EXAMINATION CERTIFICATE

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU
- [3] EU-Type Examination Certificate Number: **Presafe 19 ATEX 14930X** **Issue 0**
- [4] Product: **ABB Ability™ Smart Sensor**
- [5] Manufacturer: **ABB AS**
- [6] Address: **Ole Deviks vei 10
NO-0666 Oslo
NORWAY**
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV GL Presafe AS, notified body number 2460, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2018 and EN 60079-11:2012
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the product shall include the following:

 **II 1 G** **Ex ia IIC T4 Ga -40°C≤T_{amb}≤+85°C**
 **II 1 D** **Ex ia IIIC T157°C Da -40°C≤T_{amb}≤+85°C**
 **I M1** **Ex ia I Ma -40°C≤T_{amb}≤+85°C**



Date of issue:
2020-02-13



Asle Kaastad
 For DNV GL Presafe AS
 The Certificate has been digitally signed.
 See www.dnvgl.com/digitalsignatures for info

[13] **Schedule**

[14] **EU-Type Examination Certificate No:** Presafe 19 ATEX 14930X Issue 0

[15] **Description of Product**

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

Ambient temperature:

-40°C to +85°C

Routine tests

N/A

[16] **Report No.:** D0003982
Project No.: PRJC-600681-2019-PRC-NOR

[17] **Specific Conditions of Use**

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

[18] **Essential Health and Safety Requirements**

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

[19] **Drawings and documents**

Number	Title	Rev.	Date
Sensor 4JNO000026R003 Smart Sensor HCHC (WirelessHART):			
4JNO000026D003	Scheduled document list Smart Sensor HCHC	A	2020.02.05
Sensor 4JNO000026R004 Smart Sensor BCHC Bluetooth & Longlife & High Performance			
4JNO000026D0004	Scheduled document list Smart Sensor BCHC	A	2020.02.05

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue of Principal ATEX certificate	2020-02-13	D0003982

END OF CERTIFICATE

