



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 FME 18.0001X

Issue No: 0

Certificate history:

[Issue No. 0 \(2019-03-12\)](#)

Status: **Current**

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Date of Issue: **2019-03-12**

Applicant: **ABB Limited**
Howard Road
Eaton Socon,
St Neots,
Cambridgeshire PE19 8EU
United Kingdom

Equipment: **AWT210 Electrochemical Transmitter**

Optional accessory:

Type of Protection: **Intrinsic Safety 'i'**

Marking:
Ex ia IIC T4 Ga
Ta = -20°C to +60°C

*Approved for issue on behalf of the IECEx
Certification Body:*

Andrew Was

Position:

Deputy Certification Manager

*Signature:
(for printed version)*

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:

FM Approvals Ltd
1 Windsor Dials
SL4 1RS Windsor
United Kingdom





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Manufacturer: **ABB Limited**
Howard Road
Eaton Socon,
St Neots,
Cambridgeshire PE19 8EU
United Kingdom

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 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:

[GB/FME/ExTR18.0004/00](#)

Quality Assessment Report:

[GB/FME/QAR19.0002/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The ABB ATW210 is a 2-wire transmitter which is used for the measurement of conductivity using 4-electrode sensor (EC), toroidal sensor (TC), 2-electrode sensor (TE) and pH/ORP. The electronics are located in an aluminium (LM20) or polycarbonate (LEXAN 505RU 10% Glass filled) enclosure that is designed for panel, wall or pipe mounting.

The single compartment enclosure contains a front panel display and backplane. The electronics for communication and measurement are modular that fix to the backplane using a locking spindle arrangement. The HART communication module is common to all four types of transmitter.

AWT210abcH1efgh Electrochemical Transmitter

a = Reserved for future use

b = Enclosure Type: 1 or 2

c = sensor input: C2, C4, C1 or P1

e = Approvals: E3, E5 or E6

f = Mounting kits: A1, A2, A3 or A4

g = Cable entry options: U1, U2, U3, U4, U5 or U6

h = Documentation: Not relevant to safety

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. For the aluminium enclosure the ATW210 (enclosure option b = 2) contains aluminium and is considered to present a potential risk of ignition by impact or friction. Care shall be taken into account during installation and use to prevent impact or friction.
2. For the Lexan enclosure – for areas subject to explosive gas atmospheres the Lexan enclosure ATW210 (enclosure option b = 1) may store electrostatic charge and become a source of ignition in applications with a low relative humidity <-30% relative humidity where the Lexan is relatively free of surface contamination such as dirt, dust, or oil. Guidance on protection against the risk of ignition due to electrostatic discharge can be found in IEC TS 60079-32-1. Cleaning of the surface shall only be done in accordance with the manufacturer's instructions.
3. Where the manufacturer of the equipment has not identified the variant of communication module and sensor module on the label, the user shall, on installation, mark the variant of the communication module and sensor module on the label.