Declaration of Conformity and Special Instructions

Endura ACA592 Conductivity Transmitter
Endura APA592 pH / Redox (ORP) Transmitter

The Equipment:

The Manufacturer: ABB Inc.
The Address of: 3400 Rue Pierre-Ardouin, Québec, Qc, G1P 0B2, Canada

The Conformity: Products are built in accordance with the requirements of the quality standard ISO 9001:2015

Directive 2011/65/EU of June 8, 2011 for restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS II), including Decision No. 768/2008/EC of July 9, 2008, and in accordance with the applicable conformity standard EN50581:2012 and Technical File AxA592-RoHS_TFI70722 to demonstrate the fulfilment of the essential requirements specified in Article 4 of the directive.

Directive 2014/30/EU of February 26, 2014 for Electromagnetic Compatibility (EMC); Industrial Environment, in accordance with the applicable conformity standard EN61326:2013 and Technical File AxA592EMC to demonstrate the fulfilment of the essential requirements specified in Annex I of the directive.

Directive 2014/35/EU of February 26, 2014 for electrical equipment designed for use within certain voltage limits (LVD). The equipment described herein is constructed in accordance with the principles of good engineering practices with regard to safety matters, and provides adequate protection against other hazards specific to the Essential Health and Safety Requirements for electrical equipment for measurement, control, and laboratory use in accordance with the applicable conformity standard EN 61010-1:2010 to demonstrate the fulfilment of the safety objectives referred to in Article 3 and specified in Annex I of the directive.


Ex marking for the potentially explosive atmosphere:

II 1 G D; Ex ia IIC T4 Ga / Ex iAd 20 IP66 T135°C Da
II 2 G D; Ex d IIC T4 Gb / Ex tD A21 IP66 T135°C Db
II 3 G D; Ex nA IIC T4 Gc / Ex tD A22 IP66 T135°C Dc

EC-Type Exam. Certificate LCIE 11ATEX 3058X*
EC-Type Exam. Certificate LCIE 11ATEX 3057X*
Type Exam. Certificate LCIE 11ATEX 1005X

Notified Body (0081) responsible for Type/EC-Type Examination Certificate: LCIE Bureau Veritas 33 av. du Général Leclerc, 92260, Fontenay aux Roses – France

*Notified Body responsible for Factory Surveillance: DEKRA Certification B.V. (0344), Meander 1051, 6825 M1, Arnhem, The Netherlands.

The Declaration, issued under the sole responsibility of the manufacturer on September 24th, 2020:

The manufacturer hereby declares that the process control equipment described herein is intended for use in a potentially explosive atmosphere and the object of the declaration is in conformity with the relevant Union harmonization Legislation for the Directives set forth. Furthermore, the manufacturer attests that this equipment aligns with the New Legislative Framework (NLF) and satisfies the necessary requirements for equipment marking CE.

Marc Corriveau
General Manager
3400, Rue Pierre-Ardouin
Québec QC G1P 0B2
CANADA

Jean-François Ferland
EX Responsible Person

Nicolas Hô
Quality Manager

ABB Inc.

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CERT0173/ 3KXA1625000001_rev. A
The User Is Responsible For Ensuring The Special Conditions For Safe Use:

The installer shall be responsible for ensuring a quality electrical supply to the equipment. Natural lightning strikes, fast high voltage transients, low voltage conditions, or an unstable line voltage frequency may cause instrument performance degradation, function loss, or damage to the equipment. The manufacturer recommends that the installation include a suitable surge suppressor to protect the equipment, and that the user provides an instrument grade intrinsically safe supply power that is free from potential electrical supply problems. The equipment is not susceptible to radio frequency when properly installed in a Class A industrial or Class B commercial environment. Assurance of electromagnetic compatibility for the complete system is by isolating the equipment from any potentially hazardous interconnected device.

The safety of the equipment relies on the provision of proper operation when used in a potentially explosive atmosphere. The temperature code T4 (135°C) corresponds with the ambient temperature range from -20°C to +60°C. The electrical installation of the equipment in a hazardous area shall be in accordance with the applicable standard EN/IEC60079-14. The installer shall be responsible for ensuring that all connections to the equipment are approved for the area classification. The equipment is not intended for below surface mining applications. The equipment should not be operated in a hazardous area without special permission from the local inspection authority having jurisdiction.

**Zone 0 and Zone 20 area:** The apparatus must only be combined with an associated intrinsically safe certified apparatus and must be compatible as far as intrinsic safety is concerned. Electrical parameters for the supply circuit are:

<table>
<thead>
<tr>
<th>Intrinsic Safety Parameters</th>
<th>Electrical Parameters</th>
<th>Supply circuit</th>
<th>Output circuit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum voltage</td>
<td>U_i = 30 V</td>
<td>U_o = 11.8 V</td>
<td></td>
</tr>
<tr>
<td>Maximum current</td>
<td>I_i = 160 mA</td>
<td>I_o = 5 mA</td>
<td></td>
</tr>
<tr>
<td>Maximum power</td>
<td>P_i = 0.8 W</td>
<td>P_o = 15 mW</td>
<td></td>
</tr>
<tr>
<td>Maximum capacitance</td>
<td>C_i = 5 nF</td>
<td>C_o = 1.45 uF</td>
<td></td>
</tr>
<tr>
<td>Maximum inductance</td>
<td>L_i = 0.5 mH</td>
<td>L_o = 1 H</td>
<td></td>
</tr>
</tbody>
</table>

Any modification affecting the essential health and safety requirements of the equipment, or the integrity of a type protection, shall be defined as substantial. The person conducting such modification shall be responsible for ensuring a unit verification and approval by a Notified Body. This controlled compliance document is subject to change without notice. Refer to the equipment manual for installation, operation, maintenance and service instructions.