SALES ORDER NUMBER / YEAR: _____

Declaration of Conformity and Special Instructions

The Equipment: **Endura ACA592 Conductivity Transmitter**
Endura APA592 pH / Redox (ORP) Transmitter

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_TF170722 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.

Directive **2014/34/EU** of February 26, 2014 for Explosive Atmospheres (ATEX), concerning the design and construction of equipment and protective systems intended for use in a potentially explosive atmosphere, the technical rules and Type/EC-Type Examination certification, in accordance with the applied conformity standards: EN60079-0:2006, EN60079-1:2007, EN60079-11:2005, EN60079-15:2005, EN61241-0:2006, EN61241-1:2004 and EN61241-11:2006, and Technical File AxA592 to demonstrate the fulfilment of the essential health and safety requirements specified in Annex II of the directive, and furthermore, after doing a gap analysis, the following (parts/clauses of) harmonized standards have been met: EN 60079-0:2018, EN60079-1:2014, EN60079-11:2012, EN60079-15:2019 and EN 60079-31:2014.

. Ex marking for the potentially explosive atmosphere:

CE 0344 Ex	**II 1 G D; Ex ia IIC T4 Ga / Ex iaD 20 IP66 T135°C Da**	**EC-Type Exam. Certificate LCIE 11ATEX 3058X***
	II 2 G D; Ex d IIC T4 Gb / Ex tD A21 IP66 T135°C Db	**EC-Type Exam. Certificate LCIE 11ATEX 3057X***
CE Ex	**II 3 G D; Ex nA IIC T4 Gc/ Ex tD A22 IP66 T135°C Dc**	**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 MJ, 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 — Digitally signed by Marc Corriveau DN: cn=Marc Corriveau, c=CH, o=ABB Information Systems Ltd, ou=CA Date: 2020.10.13 14:03:22 -04'00'

Marc Corriveau
General Manager

Jean-Francois Ferland — Digitally signed by Jean-Francois Ferland Date: 2020.10.09 16:40:26 -04'00'

Jean-François Ferland
EX Responsible Person

Nicolas Ho — Digitally signed by Nicolas Ho DN: cn=Nicolas Ho, ou=Normal Date: 2020.10.13 08:42:58 -04'00'

Nicolas Hô
Quality Manager

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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:

Intrinsic Safety Electrical Parameters	Supply circuit	Output circuit
Maximum voltage	U_i = 30 V	Uo = 11.8 V
Maximum current	I_i = 160 mA	Io = 5 mA
Maximum power	P_i = 0.8 W	Po = 15 mW
Maximum capacitance	C_i = 5 nF	Co = 1.45 uF
Maximum inductance	L_i = 0.5 mH	Lo = 1 H

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.

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