



SALES ORDER / SERIAL NUMBER : \_\_\_\_\_

## EU Declaration of Conformity and Special Instructions

The Equipment: **TB82 - pH or Conductivity Transmitter**

The Manufacturer: **ABB Inc.**

The Address of: **3400, Rue Pierre-Ardouin, Québec (Québec) G1P 0B2, Canada**

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

Directive 2014/30/EU of February 26, 2014 for Electromagnetic Compatibility (EMC); Industrial Environment, in accordance with the applicable conformity standard EN 61326-1:2013 and Technical File TB82/EMC to demonstrate the fulfilment of the essential requirements 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 EC-Type Examination certification, in accordance with the applied conformity standards: EN IEC 60079-0:2012+A11:2013 and EN 60079-11:2012, and Technical File TB82 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 standard have been met: EN 60079-0:2018.

Ex marking for potentially explosive atmospheres:

**CE 0344**  **II 1 G; Ex ia IIC T4, EPL Ga;**

### EC-Type Examination Certificate LCIE 02ATEX6115X

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

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

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

Jean-François Ferland  
EX Responsible Person

Nicolas Hô  
Quality Manager

**ABB Inc.**



### The User Is Responsible For Ensuring The Special Conditions For Safe Use:

The apparatus must only be combined with an associated intrinsically safe certified apparatus and must be compatible as far as intrinsic safety is concerned.

The safety of this equipment relies on the provision of proper operation when used in a potentially explosive atmosphere. The installer shall be responsible for ensuring that all connections to the equipment are approved for the area classification. Electrical parameters for the Intrinsic Safety shall not exceed:

	Ui	Ii	Pi	Ci	Li
TB82EC, TB82PH, TB82TC, TB82TE	42V	200mA	1.2W	5.2nF	0.4mH
Foundation Fieldbus	24V	380mA	5.32W	0nF	0mH

Temperature class T4 corresponds with the ambient temperature range from -20°C to +60°C.

The equipment must not be operated in a hazardous location without special permission from the local inspection authority having jurisdiction. The equipment is not intended for a combustible dust environment or for below surface mining applications.

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 environment. Assurance of electromagnetic compatibility for the complete system is by isolating the equipment from all interconnected devices with a recommended minimum distance of three meters.

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.

ABB Inc.