



SALES ORDER NUMBER / YEAR: _____

Declaration of Conformity and Special Instructions
Déclaration de conformité et instructions spéciales
Konformitätserklärung und besondere Anweisungen
Dichiarazione di conformità ed istruzioni speciali
Declaración de homologación e instrucciones especiales

The Equipment:

**pH or Conductivity Transmitter
TB82**

The Manufacturer:

ABB Inc.

The Address of:

843 North Jefferson Street, Lewisburg WV 24901 USA

The Conformity:

Directive **2004/108/EC** of December 15, 2004 (until April 19, 2016) and the recast Directive **2014/30/EU** of February 26, 2014 (after April 20, 2016) for Electromagnetic Compatibility (EMC); Industrial Environment, in accordance with the latest edition of the applicable conformity standard EN61326:2013;

Directive **94/9/EC** of March 23, 1994 (until April 19, 2016) and the recast Directive **2014/34/EU** of February 26, 2014 (after April 20, 2016) for Potentially Explosive Atmospheres (ATEX), concerning the technical rules and Type Examination certification, in accordance with the latest edition of the applicable conformity standards: EN 60079-0:2012 and EN 60079-11:2012

Ex marking for potentially explosive atmospheres:

CE 0344  **II 1G; Ex ia IIC T4, EPL Ga;
EC Type Examination Certificate LCIE 02ATEX 6115X**

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

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;

The Declaration of March 3, 2016:

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.

F. Scott Kiddle, Compliance Officer and “Authorized Person” for ABB Inc. – Lewisburg



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.