



## Declaration of Conformity and Special Instructions

The Equipment:

# Conductivity Transmitter TB82

The Manufacturer:

ABB Inc. Analytical PRU - Lewisburg

The Address of:

843 North Jefferson Street, Lewisburg WV 24901 USA

The Conformity:

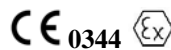
Directive **2004/108/EC** of December 15, 2004 for Electromagnetic Compatibility (EMC); Industrial Environment, in accordance with the applicable conformity standard EN 61326:2006;

Safety requirements for electrical equipment for measurement, control, and laboratory use, constructed in accordance with the principles of good engineering practices with regard to safety matters, in accordance with the applicable electrical standards;

Directive **94/9/EC** of March 23, 1994 for Potentially Explosive Atmospheres (ATEX), concerning the technical rules and EC-Type Examination certification, in accordance with the applicable conformity standards:

**Zone 1 area:** IEC/EN 60079-0:2004 and IEC/EN 60079-11:2006

This equipment provides adequate protection against other hazards regarding the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, as specified in Annex II of Directive 94/9/EC, specifically section 1.2.7. Ex marking for potentially explosive atmospheres:



**II 2G; Ex ia IIC T4;**

**EC Type Examination Certificate LCIE 02ATEX 6115X**

The Declaration:

The manufacturer hereby declares that the equipment described herein conforms to this Declaration of Conformity. Furthermore, the manufacturer attests that this equipment is intended for the use in potentially explosive atmospheres, is designed and manufactured in compliance with the applicable Community Directives set forth, and conforms to the necessary requirements for equipment marking CE.

F. Scott Kiddle, Compliance Officer for ABB Inc. Analytical PRU -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 are:

TB/ML82PH/EC/TE:  
 $U_i \leq 42V$ ;  $I_i \leq 200mA$ ;  $P_i \leq 1.2W$ ;  $C_i \leq 2.5nF$ ;  $L_i \leq 0.4mH$

FOUNDATION FIELDBUS VERSION:  
 $U_i \leq 24V$ ;  $I_i \leq 380mA$ ;  $P_i \leq 5.32W$ ;  $C_i = 0nF$ ;  $L_i = 0mH$

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.