



Declaration of Conformity and Special Instructions for Safe Use

The Equipment:

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

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 61326-1:2006;

Directive 2006/95/EC of December 12, 2006 for electrical equipment designed for use within certain low voltage limits (LVD), and the Essential Health and Safety Requirements (EHSR) for electrical equipment for measurement, control, and laboratory use, as constructed 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 0 and Zone 20 area: IEC/EN 60079-0 (2006) and IEC/EN 60079-11 (2007), Type Protection 'i'

Zone 1 and Zone 21 area: IEC/EN 60079-0 (2006) and IEC/EN 60079-1 (2007), Type Protection 'd'

Zone 2 and Zone 22 area: IEC/EN 60079-0 (2006) and IEC/EN 60079-15 (2005), Type Protection 'n'

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 1G/D; Ex ia IIC T4 EC Type Examination Certificate LCIE 11ATEX 3058X
II 2G/D; Ex d IIC T4 EC Type Examination Certificate LCIE 11ATEX 3057X
II 3G/D; Ex nA IIC T4 Voluntary Type Examination Certificate LCIE 11ATEX 1005X

The Declaration:

The manufacturer hereby declares on October 11, 2011 that the equipment described herein conforms to this Declaration of Conformity. Furthermore, the manufacturer attests that this equipment is intended for general purpose use or 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.

[Handwritten signature]

F. Scott Kiddle, Compliance Officer and Authorized Person for ABB Inc. Analytical Measurement Products - Lewisburg



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 with 3 columns: Intrinsic Safety Electrical Parameters, Supply circuit, Output circuit. Rows include Maximum voltage, Maximum current, Maximum power, Maximum capacitance, Maximum inductance.

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.