

## **IECEx Certificate** of Conformity

### INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx UL 14.0107X	issue No.:1	Certificate history:	
Status:			Issue No. 1 (2014-11- 11)	
Otatus.	Current		Issue No. 0 (2014-10- 15)	
Date of Issue:	2014-11-11	Page 1 of 4	10)	
Applicant:	United Electric Control 180 Dexter Avenue PO Box 9143 Watertown, MA 02472 United States of Ameri			
Electrical Apparatus: Optional accessory:	TX200 Series Pressure Transmitters			
Type of Protection:	Flameproof "d", Dust Ignition Protection by Enclosure "tb"			
Marking:	Ex d IIC T5 Gb			
	Ex tb IIIC T90°C Db			
	-40°C to +80°C			
Approved for issue on be Certification Body:	half of the IECEx	Paul T. Kelly		
Position:		Principal Engineer, Global Hazard	dous Locations	
Signature: (for printed version)		Fait T. Well	5	
Date:		2014-11-11		
<ol> <li>This certificate and schedule may only be reproduced in full.</li> <li>This certificate is not transferable and remains the property of the issuing body.</li> <li>The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.</li> </ol>				

Certificate issued by:

**UL LLC** 333 Pfingsten Road Northbrook IL 60062-2096 **United States of America** 





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Certificate No.: IECEx UL 14.0107X

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Page 2 of 4

United Electric Controls Co. Manufacturer:

> 180 Dexter Avenue PO Box 9143 Watertown, MA 02472 **United States of America**

Additional Manufacturing location

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0: 2011 Explosive atmospheres - Part 0: General requirements

Edition: 6.0

Edition: 1

IEC 60079-1: 2007-04

Edition: 6

IEC 60079-31: 2008

Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

#### **TEST & ASSESSMENT REPORTS:**

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

US/UL/ExTR14.0140/00

US/UL/ExTR14.0140/01

**Quality Assessment Report:** 

US/UL/QAR07.0002/07



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Date of Issue:	2014-11-11	Issue No.: 1
		Page 3 of 4
	Sch	edule
<b>EQUIPMENT:</b> Equipment and systems cov	rered by this certificate are as foli	'ows:
is identical to Model B exception coupled external adjustment	ot for model designation, internal t controls. Model H is identical to nal output signal of HART protoco	smitters with a stainless steel flameproof housing. Model A circuitry, and Model A is provided with magnetically Model B, except for model designation, internal circuitry ol. The electrical wires are permanently mounted by the
Please see Annex for addition	onal details.	
CONDITIONS OF CERTIFIC	CATION: YES as shown below:	
	6, IEC 60079-1 Ed. 6, IEC 60079	e connected in a safe area or by an approved terminal box 9-31 Ed. 1 or IEC 60079-0 Ed. 6, IEC 60079-7 Ed. 4 and
The epoxy resin shall not be	subjected to a temperature grea	ater than 125°C.
An external earth screw is to	be used (M460 option) if metal	conduit is not used.
By the installation the wires	shall be protected against mecha	anical damage e.g. by use of conduit.
Electrical conduit fitting threa	aded connection: M20 x 1.5, 7 th	reads minimum engagement



## IECEx Certificate of Conformity

Certificate No.: IECEx UL 14.0107X Date of Issue: 2014-11-11 Issue No.: 1 Page 4 of 4 **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):** Issue 1: Clarification to the Conditions of Safe Use to include wiring to Increased Safety IEC 60079-7 junction boxes.

Annex: Annex to IECEx UL 14.0107X.pdf

#### Annex to IECEx UL 14.0107X

#### Nomenclature:

<u>TX200</u> <u>A</u> <u>05</u> <u>X</u> <u>1</u> <u>T</u> <u>M460</u> I II III IV V VI VII

I Type

TX200

II Model

B= Non-adjustable

A= Adjustable

H= HART Protocol

III Pressure Range

Any alphanumeric character indicating a pressure range between 0 psi to 40000 psi.

IV Pressure Reference

'X' = 'X' may be any alphanumeric character that represents type of pressure reference such as: psi, bar, in. W.C., in. Hg, etc.

V Pressure Connections

Any alphanumeric character indicating different pressure connections complying with the Pressure Equipment Directive

VI Electrical Output

T = 4-20 mA

D = 1-5 Vdc

H = 4-20mA with HART Protocol

"X" = Any range between 0-10 Vdc, where "X" may be any other alphanumeric character not listed here.

VII Options

Four character alphanumeric code indicating different accessories/variations that do not affect the flameproof properties, electrical ratings or pressure ratings as indicated above.

M460 - External Ground Connection

M441 - M20 Electrical Conduit Thread

Alternate Type Variants indicating customer specification number TX200 followed by a five character alphanumeric code indicating model, pressure range, pressure reference, pressure connections, electrical output and miscellaneous options that does not affect flameproof properties, max. electrical ratings and mechanical ratings as indicated above. The alternate nomenclature is customer specific.