

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

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IECEx DEK 13.0015X

issue No.:0

Certificate history:

Status:

Current

Date of Issue:

2013-04-05

Page 1 of 4

Applicant:

Endress + Hauser GmbH + Co. KG

Hauptstrasse 1 79689 Maulburg Germany

Electrical Apparatus:

Prosonic T, Model FMU 30

Optional accessory:

Type of Protection:

Ex i

Marking:

Ex ia IIC T5 Ga/Gb

Approved for issue on behalf of the IECEx

Certification Body:

R. Schuller

Position:

Certification Manager

Signature:

(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.

2. This certificate is not transferable and remains the property of the issuing body.

3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

DEKRA Certification B.V. Utrechtseweg 310 6812 AR Arnhem The Netherlands





IECEx Certificate of Conformity

Certificate No.: IECEx DEK 13.0015X

Date of Issue: 2013-04-05 Issue No.: 0

Page 2 of 4

Manufacturer: Endress + Hauser GmbH + Co. KG

Hauptstrasse 1 79689 Maulburg **Germany**

Additional Manufacturing location (s):

Endress + Hauser GmbH

+ Co. KG Hauptstrasse 1 79689 Maulburg Germany

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

IEC 60079-11: 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition: 6.0

IEC 60079-26: 2006 Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

Edition: 2

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:

NL/DEK/ExTR13.0021/00

Quality Assessment Report:

DE/TUN/QAR06.0003/03



IECEx Certificate of Conformity

Certificate No.:	IECEx DEK 13.0015X	
Date of Issue:	2013-04-05	Issue No.: 0
		Page 3 of 4
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- OLUBAINT	Schedule	
EQUIPMENT: Equipment and systems co	vered by this certificate are as follows:	
measurement of liquids. (sensor and the electronic surface of the media. The	Compact ultrasonic level transmitter Pos. The sensor transmits short ultrason	is mainly used for continuous non-contact rosonic T Model FMU 30 combines a 1.5" or 2" ic pulses and receives the echo reflected by the computes the level data based on the time of 2-wire loop).
	ilizing and calibration can be done usir nmubox +ToF Adapter FXA291 can be	ng the optional FMU30 display. Instead, a e connected.
Ambient temperature ran Process temperature ran		
The instructions provided	I with the equipment shall be followed	in detail to assure safe operation.
CONDITIONS OF CERTIFI	CATION: YES as shown below:	
Electrostatic charges on the	e Compact ultrasonic level transmitter Pro	sonic T Model FMU 30 shall be avoided



IECEx Certificate of Conformity

IECEx DEK 13.0015X Certificate No.:

Date of Issue: 2013-04-05 Issue No.: 0

Page 4 of 4

EQUIPMENT(continued):

Electrical data

Interface 4 - 20 mA (Terminals 1, 2 and 3):

Supply and output circuit (terminals + and - or connector):

in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with the following maximum values: $U_i = 30 \text{ V}; I_i = 300 \text{ mA}; P_i = 1 \text{ W}; L_i = 0 \text{ mH}; C_i = 13 \text{ nF}.$

Display connector (X301):

in type of protection intrinsic safety Ex ia IIC, for connection to a certified intrinsically safe circuit, with following

 U_{o} = 3.8 V; I_{o} = 30.53 mA; P_{o} = 29 mW, C_{o} = 100 μ F; L_{o} = 1 mH and U_{i} = 3.8 V; I_{i} = 47 mA; P_{i} = 66 mW; C_{i} = 0 nF; L_{i} = 0 μ H.