IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx EPS 18.0026X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 5	Issue 4 (2023-05-30) Issue 3 (2022-09-14) Issue 2 (2020-08-12) Issue 1 (2019-10-23) Issue 0 (2018-08-27)
Date of Issue:	2023-11-24		
Applicant:	**Endress+Hauser Wetzer GmbH + Co. KG** Obere Wank 1 87484 Nesselwang **Germany**		
Equipment:	**Temperature transmitter TMT7x and L2022x, Temperature head transmitter, type TMT182B**		
Optional accessory:			
Type of Protection:	**intrinsic safety "ia", "ib"**		
Marking:	Ex ia IIC T6...T4 Ga (Head) Ex ia IIC T6…T4 Gb (Head) Ex ia [ia Ga] IIC T6…T4 Gb (Field) Ex ib [ia Ga] IIC T6…T4 Gb (DIN rail)		

Approved for issue on behalf of the IECEx Certification Body:

Position: **Head of Certification**

Signature: (for printed version)

Date: (for printed version) 2023-11-24

ZERTIFIZIERUNGSSTELLE BUREAU VERITAS Bureau Veritas CPS Germany GmbH 1828

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany

IECEx Certificate of Conformity

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Manufacturer:

Endress+Hauser Wetzer (India) Pvt. Ltd.
M-171/173, MIDC, Waluj
Aurangabad – 431 136
India

Manufacturing locations:

Endress+Hauser Wetzer GmbH + Co. KG
Obere Wank 1
87484 Nesselwang
Germany

Endress+Hauser Wetzer (Suzhou) Co. Ltd.
Su-Hong-Zhong-Lu No. 465, 215021
Suzhou-SIP
China

Endress+Hauser Wetzer USA INC
2413 Endress Place, Greenwood, IN 46143
United States of America

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with 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:

DE/EPS/ExTR18.0021/05

Quality Assessment Report:

DE/TUN/QAR06.0009/11

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The temperature transmitter iTEMP type TMT7x, L2022x or TMT182B, is a two wire transmitter with analogue output. It has measuring input circuits for resistance thermometers (RTD) in 2-, 3- or 4-wire connection, thermocouples and voltage transmitters. Setting up is done using the HART-Protocol for TMT72, L20222 and TMT182B or PC programming for TMT71, L20221.

The equipment is intended for the application inside the explosion hazardous areas.

SPECIFIC CONDITIONS OF USE: YES as shown below:
In hazardous areas it is not permitted to use the CDI interface of TMT7x, L2022x or TMT182B for configuration.
The head transmitter and DIN rail transmitter must be protected against electrostatic charge/ discharge.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Minor technical changes.

Annex:

IECEx EPS 18.0026X_5 - Annex.pdf

Applicant:

Endress+Hauser Wetzer GmbH + Co. KG
Obere Wank 1
87484 Nesselwang
Germany

Electrical Apparatus:

Temperature Transmitter, types TMT7x and L2022x
Temperature head transmitter, type TMT182B

Description:

Electrical data:

Head transmitter, type TMT7x and L2022x:

Power supply (terminals + and -)	Ui	≤	30 V DC
	Ii	≤	100 mA
	Pi	=	800 mW
	Ci	=	vernachlässigbar klein
	Li	=	vernachlässigbar klein
Sensor circuit (terminal 3 to 6)	Uo	≤	4.3 V DC
	Io	≤	4.8 mA
	Po	≤	5.2 mW

Max. connection values		
Ex ia IIC	Lo = 50 mH	Co = 3 µF
Ex ia IIB	Lo = 100 mH	Co = 18 µF
Ex ia IIA	Lo = 100 mH	Co = 48 µF

Head transmitter, type TMT182B:

Power supply (terminals + and -)	Ui	≤	30 V DC
	Ii	≤	100 mA
	Pi	=	800 mW
	Ci	=	vernachlässigbar klein
	Li	=	vernachlässigbar klein
Sensor circuit (terminal 3 to 6)	Uo	≤	5 V DC
	Io	≤	5.4 mA
	Po	≤	6.6 mW

Max. connection values		
Ex ia IIC	Lo = 20 mH	Co = 2.4 µF
Ex ia IIB	Lo = 100 mH	Co = 14 µF
Ex ia IIA	Lo = 100 mH	Co = 36 µF

DIN rail transmitter, type TMT7x and L2022x:

Power supply (terminals + and -)	Ui	≤	30 V DC
	Ii	≤	100 mA
	Pi	=	700 mW
	Ci	=	negligibly small
	Li	=	negligibly small
Sensor circuit (terminal 3 to 6)	Uo	≤	4.3 V DC
	Io	≤	4.8 mA
	Po	≤	5.2 mW

Max. connection values		
Ex ia IIC	Lo = 50 mH	Co = 3 µF
Ex ia IIB	Lo = 100 mH	Co = 18 µF
Ex ia IIA	Lo = 100 mH	Co = 48 µF

Display interface (CDI connection)	Uo	≤	4.3 V DC
	Io	≤	100 mA
	Ci	=	negligibly small
	Li	=	negligibly small

Max. connection values		
Ex ia IIC	Lo = 5.6 mH	Co = 1.7 µF
Ex ia IIB	Lo = 28 mH	Co = 10 µF
Ex ia IIA	Lo = 48 mH	Co = 33 µF

Ambient temperature range:

Type (order option)	Temperature class	Ambient temperature Zone 1/ EPL Gb	Ambient temperature Zone 0/ EPL Ga
TMT7x-xxx1xxxx L2022x-xxx1xxxx Headtransmitter without display	T6	-50 °C ≤ Ta ≤ +55 °C	-50 °C ≤ Ta ≤ +40 °C
	T5	-50 °C ≤ Ta ≤ +70 °C	-50 °C ≤ Ta ≤ +60 °C
	T4	-50 °C ≤ Ta ≤ +85 °C	-50 °C ≤ Ta ≤ +60 °C
TMT182B Headtransmitter	T6	-50 °C ≤ Ta ≤ +55 °C	-50 °C ≤ Ta ≤ +40 °C
	T5	-50 °C ≤ Ta ≤ +70 °C	-50 °C ≤ Ta ≤ +60 °C
	T4	-50 °C ≤ Ta ≤ +85 °C	-50 °C ≤ Ta ≤ +60 °C
TMT7x-xxx1xxxx L2022x-xxx1xxxx Headtransmitter with display (TID10)	T6	-40 °C ≤ Ta ≤ +55 °C	
	T5	-40 °C ≤ Ta ≤ +70 °C	
	T4	-40 °C ≤ Ta ≤ +85 °C	
TMT7x-xxx1xxxx L2022x-xxx1xxxx Field housing without display	T6	-50 °C ≤ Ta ≤ +55 °C	
	T5	-50 °C ≤ Ta ≤ +70 °C	
	T4	-50 °C ≤ Ta ≤ +85 °C	
TMT7x-xxx1xxxx L2022x-xxx1xxxx Field housing with display	T6	-40 °C ≤ Ta ≤ +55 °C	
	T5	-40 °C ≤ Ta ≤ +70 °C	
	T4	-40 °C ≤ Ta ≤ +85 °C	
TMT7x-xxx2xxxxxxxxx L2022x-xxx2xxxx TMT7x-xxx3xxxxxxxxx L2022x-xxx3xxxx (DIN rail transmitter)	T6	-50 °C ≤ Ta ≤ +43 °C	
	T5	-50 °C ≤ Ta ≤ +58 °C	
	T4	-50 °C ≤ Ta ≤ +85 °C	