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INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx TUR 18.0037X Issue No: 1 Certificate history:

Issue No. 1 (2019-04-06)

Issue No. 0 (2018-07-19)

Date of Issue: 2019-04-06

Applicant: Endress+Hauser Conducta GmbH+Co. KG

Current

Dieselstrasse 24 70839 Gerlingen **Germany**

Equipment: Two- wire Measurement Transmitter with Memosens functionality, type CM82 and CM72

Optional accessory:

Type of Protection: intrinsic safety

Marking:

Status:

Ex ia IIC T4 / T6 Ga

Ex ia IIIC T85°C / T135°C Db

Approved for issue on behalf of the IECEx Dipl.-lng. Klauspeter Graffi

Certification Body:

Position: Head of Certification Body

Signature:

Date:

(for printed version)

2019-04-06

- 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:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany





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Manufacturer: Endress+Hauser Conducta GmbH+Co. KG

Dieselstrasse 24 70839 Gerlingen **Germany**

Additional Manufacturing location(s):

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 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 : 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 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:

DE/TUR/ExTR18.0037/01

Quality Assessment Report:

DE/BVS/QAR06.0005/08



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		Schedule
EQUIPMENT:		
Equipment and systems covered by	≀ this certificate are as follows	
CM82 Two- wire Measurement Trans	smitter with Memosens function	onality and Bluetooth LE
CM72 Two-wire Measurement Trans	mitter with Memosens functio	nality (Bluetooth LE disabled)
The two-wire field measuring transmi as for example pH value, electrolytica		ed to acquire different parameters in analytical measuring technology, such ygen.
CM82 and CM72 are identical in hard	dware. Different are software	features. The software is not Ex-relevant.
The transmitters provide the inductive provide access for service and configure and co		nection to digital sensors. A Bluetooth Low Energy transceiver is built in to
Electrical data:		
Current Output (max. Input values):		
Ui = 30 V		
li = 100 mA		
Pi = 750 mW		
Ci = 7 nF (including 15m cable)		
Li = 20 uH (including 15m cable)		
Inductive Memosens interface to mea	asuring sensor (max. Output v	value):
Po = 105 mW		

Ambient temperature range:

For EPL Ga:

Temperature class T6: - 20°C ≤Ta≤55°C

Temperature class T4: - 20°C ≤Ta ≤80°C

For EPL Db:

Temperature class T85°C: - 20°C ≤Ta ≤55°C

Temperature class T135°C: - 20°C≤Ta ≤80°C



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SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The transmitters CM82 and CM72 are suitable to be operated in the following ambient temperature ranges:

For EPL Ga:

Temperature class T6: - 20°C ≤Ta≤55°C

Temperature class T4: - 20°C ≤Ta ≤80°C

For EPL Db:

Temperature class T85°C: - 20°C ≤Ta ≤55°C

Temperature class T135°C: - 20°C≤Ta ≤80°C

- 2. Installation, connection to the electricity supply, commissioning, inspection, maintenance and repair of the devices must be carried out by qualified specialists trained to work on Ex-rated devices according to applicable codes of practice, e.g. EN 60079-14, -17, -19, and according to the Operating Instructions.
- 3. If installed in Zone 0 or Zone 21, the measurement transmitters CM82 and CM72 and their connectors must be protected against electrostatic charge.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

- Assessment of alternative components, housing material and alternative construction in non-Ex potting area. The assembly and components of issue 00 of this certificate remain valid as well.
- Standard update to IEC 60079-0 ed. 7

Annex:

IECEx TUR 18.0037X_attachment.pdf



Attachment to Certificate IECEx TUR 18.0037X Revison 1



Device: Two- wire Measurement Transmitter with Memosens functionality

Type: CM82 and CM72

Manufacturer: Endress+Hauser Conducta GmbH+Co. KG

Address: Dieselstrasse 24,

70839 Gerlingen, Germany

Subject and type

Two- wire Measurement Transmitter with Memosens functionality, CM82 and CM72

Type Key:



