



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 TUR 11.0007X**

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Certificate history:

Status: **Current**

Issue No: 6

[Issue 5 \(2021-06-25\)](#)

[Issue 4 \(2016-12-14\)](#)

[Issue 3 \(2015-10-09\)](#)

[Issue 2 \(2014-10-02\)](#)

[Issue 1 \(2014-02-06\)](#)

[Issue 0 \(2011-06-30\)](#)

Date of Issue: 2026-10-11

Applicant: **Endress+Hauser Conducta GmbH+Co. KG**
Dieselstraße 24
70839 Gerlingen
Germany

Equipment: **Transmitter Liquiline M type CM42 - *** ** * ***** or OCM42 - *** ** * *******

Optional accessory:

Type of Protection: **Intrinsic Safety - Ex i**

Marking: **Ex ib [ia Ga] IIC T6/T4 Gb**

Approved for issue on behalf of the IECEx
Certification Body:

Dipl. -Ing. Klauspeter Graffi

Position:

Head of Certification Body

Signature:
(for printed version)

Date:
(for printed version)

2026-10-11

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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

Manufacturing
locations: **Endress+Hauser Conducta, Inc.**
4123 E. La Palma Ave.
Anaheim, CA 92807, USA
United States of America

**Endress+Hauser Analytical
Instruments(Suzhou) Co.,LTD.**
No.31 JiangTianLiLu
Suzhou Industrial Park 215126
China

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/TUR/ExTR11.0007/05](#)

Quality Assessment Report:

[DE/TUR/QAR26.0011/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Subject and type

Transmitter Liquiline M, Type: CM42-*I***** or OCM42-*I*****

(For detailed type designation see attachment)

Technical data

(For details see attachment)

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Metal enclosures must be connected to the local equipotential bonding system at the point of installation.
2. Only sensors, intended for use according to the user instruction, must be connected. The rated values of input and output circuits must be followed.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Update QAR to new CB

Annex:

[Attachment IECEx TUR 11.0007_05_V01.pdf](#)

Product Type Code:

Liquiline M CM42 - * * * * * * * * * *

Line:

Product designation:

CM42

OCM42 (alternative designation)

Sensor module:

A No module

C Conductivity, conductive measurement (FSLC1)

I Conductivity, inductive measurement (FSLI1)

K Digital (Memosens), cond. conductivity (FSDG1)

L Digital (Memosens), ind. conductivity (FSDG1)

M Digital (Memosens), pH glass (FSDG1)

N Digital (Memosens), pH ISFET (FSDG1)

O Digital (Memosens), dissolved oxygen (FSDG1)

P pH/mV + Temperature (FSPH1)

S Digital (Memosens), dissolved oxygen (optical) (FSDG1)

Type of certification:

E II (1)2 G Ex ib [ia Ga] IIC Gb

I IECEx Ex ib [ia Ga] IIC Gb

Calibration: A to Z (not Ex-relevant)

Output:

0 4...20 mA, HART communication

1 2 x 4...20 mA, 1 x HART communication

2 Profibus PA (FBPA1)

3 Foundation Fieldbus (FBPA1)

4 2 x 4...20 mA, SIL

5 Profibus PA (FBPA3)

6 Foundation Fieldbus (FBPA3)

7 4...20 mA

8 2 x 4...20 mA

Type of enclosure:

0 Plastic material (PC)

1 Stainless steel 1.4301

Cable entry: 0 to 2

Software: A to Z (not Ex-relevant)

Language: A to Z (not Ex-relevant)

Documentation: 0 to 9 (not Ex-relevant)

Further options: 0 to 9 (not Ex-relevant)

Accessories: 0 to 9 (not Ex-relevant)

FBIH1 Specification of External and Internal Interfaces

	Designation	Connector	Max. Input/Output Values
Input External (X100)	Current output 1	X100: 3-4 Terminals 133-134	U _i = 30 V
			I _i = 100 mA
			P _i = 800 mW
			C _i = 1.2 nF
			L _i = 29 µH
	Current output 2	X100: 7-8 Terminals 233-234	U _i = 30 V
			I _i = 100 mA
			P _i = 800 mW
			C _i = 0.2 nF
			L _i = 24 µH
Internal (X101)	VCC/Bus	X101: 15-32	U _i = 6.0 V
			P _i = 150 mW (400 mW)*
	FB_UCharge	X101: 8 (UC1_+24V)	U _o = 4.6 V
			I _o = 39 mA
	FB_UReg	X101: 11 (Vcc_out)	U _o = 6.51 V
			I _o = 96mA

* The specified maximum values can only be reached by temporary connection of the CDI port in non hazardous areas with the following values:

max. input voltage U_i = 6 V

max. input current I_i = 600 mA

max. input power P_i = 800 mW

FBPA1 Specification of External and Internal Interfaces

	Designation	Connector	Max. Input-/Output Values
Input external (X104)	Fieldbus	(X104: 1,3) Terminals 997,998	U _i = 17.5 V
			I _i = 380 mA
			P _i = 5.32 W
			C _i < 5 nF
			L _i < 10 µH
Internal (X102)	VCC/Bus	X102: 17...47	U _i = 6.0 V
			P _i = 150 mW (400 mW)*
	FB_UCharge	X102: 8	U _o = 6 V
			I _o = 2.19 mA
	FB_UReg	X102: 11	U _o = 6.51 V
			I _o = 96 mA

* The maximum values can only be reached by temporary connection of the CDI port in non-hazardous areas.

FBPA3 Specification of External and Internal Interfaces

	Designation	Connector	Max. Input-/Output Values
Input external (X100)	Fieldbus	(X100: 1,3) Terminals 997,998	Ui = 17.5 V
			Ii = 380 mA
			Pi = 5.32 W
			Ci < 5 nF
			Li < 10 µH
Internal (X101)	VCC/Bus	X101: 17...47	Ui = 6.0 V
			Pi = 150 mW (400 mW)*
	FB_UCharge	X101: 8	Uo = 6 V
			Io = 2.19 mA
	FB_UReg	X101: 11	Uo = 6.51 V
			Io = 96 mA

* The maximum values can only be reached by temporary connection of the CDI port in non-hazardous areas.

FC2W1 Specification of Internal Interfaces

	Designation	Connection	Max. Input-/Output Values
Internal (X100)	VCC/Bus	X100: 15 - 32	Uo = 6.0 V
			Po = 150 mW
	FB_UCharge	X101: 8 (VC1)	Ui = 6 V
			Ii = 40 mA
	FB_UReg	X101: 11 (PVSA1)	Ui = 6.51 V
			Ii = 96 mA
SA port (X102)	VSA1	X102: 9	Uo = 5.6 V
			Io = 125 mA (205 mA)*
			Po = 200 mW (298 mW)*
internal	VCC/Bus	X102: 1-8, 11-15	Uo = 5.9 V
			Io = 141 mA (152 mA)*
			Po = 145 mW (271 mW)*
Display Port (X101)	PVSA1 (U_Reg)	X101: 30	Uo = 5.6 V
			Io = 177 mA (316 mA)*
			Po = 240 mW (480 mW)*
	VCC/Bus	X101: 1-25	Uo = 5.9 V
			Io = 143 mA (152 mA)*
			Po = 150 mW (271 mW)*

* The maximum values can only be reached by temporary connection of the CDI-port in non-hazardous areas.

FD2W1 Specification of Internal Interfaces

	Designation	Connector	Max. Input-/Output Values
Display Port X100	PVSA1	X100: 29	U _i = 5.6 V
			I _i = 177 mA
			P _i = 240 mW
	VCC/Bus	X100: 8 - 20	U _i = 5.9 V
			I _i = 143 mA
			P _i = 150 mW
Keys/ LEDs X115		X115	U _o = 5.9 V
			I _o = 47 mA
			P _o = 66 mW

FSPH1 Specification of Internal and External Interfaces

	Designation	Connector	Max. Input-/Output Values
SA port (X100/ X101)	V_SA1	X100: 9	U _i = 5.6 V
			P _i = 200 mW
	VCC/Bus	X100: 1-8	U _i = 5.9 V
			P _i = 152 mW
Sensor Input pH Ex ia IIC X110	pH/Redox sensor input and temperature	X110: 317–320; 111-113	U _o = 10.08 V
			I _o = 4.1 mA
			P _o = 10.2 mW
	pH-ISFET sensor input and temperature	X110: 315-320; 111-113	U _o = 10.08 V
			I _o = 50.7 mA
			P _o = 128 mW
	Two pH-type sensors connected	Max. internal capacity Max. internal inductivity Max. external capacity Max. external inductivity	C _i = 28.9 nF
			L _i = 305 µH
			C _o = 250 nF
			L _o = 1 mH

FSLI1 Specification of Internal and External Interfaces

	Designation	Connector	Max. Input/Output Values
SA port (X100/ X101)	V_SA1	X100: 9	U _i = 5.6 V
			P _i = 200 mW
	VCC/Bus	X100: 1-8	U _i = 5.9 V
			P _i = 152 mW
Sensor Input Conductivity Ex ia IIC	Sensor input for: Inductive conductivity probe... ...Type CLS50-G... or Type CLS54-G...	X109: 1- 7 Terminal: 111-113, 215-218	U _o = 10.08 V
			I _o = 64 mA
			P _o = 128 mW
			C _i = 62 nF
			L _i = 305 µH

FSLC1 Specification of Internal Interfaces (Safety related limits):

	Designation	Connector	Max. Input/Output Values
SA port (X100/ X110)	V_SA1	X100: 9	U _i = 5.6 V
			P _i = 200 mW
	VCC/Bus	X100: 1-5	U _i = 5.9 V
			P _i = 152 mW
			C _i = 396 nF
Sensor Input	Conductive conductivity sensor	X109: 1 - 7 Terminals: 111 to 113, 219 to 222	U _o = 10.08 V
			I _o = 23 mA
			P _o = 57 mW
			C _i = 21 nF
			L _i = 305 µH
			Co = 50 nF
			Lo = 300 µH

FSDG1 Specification of Internal and External Interfaces

	Designation	Connector	Max. Input/Output Values
SA port (X100/ X110)	V_SA1	X100: 9	U _i = 5.6 V
			P _i = 200 mW
	VCC/Bus	X100: 1-15	U _i = 5.9 V
			P _i = 152 mW
			C _i = 246 nF
			L _i negligible
Sensor input Ex ia IIC	Sensor input for: MEMOSENS cable Typ CYK10-G**1 and an approved sensor w/ Memos- sens Technology, e.g.: CPS**(*)D-7**(*)G (pH)	X109: 1-4	U _o = 5.04 V
		Terminals	I _o = 80 mA
		187, 188, 197, 198	P _o = 112 mW
			C _i = 12,4 µF
			L _i = 160,4 µH

Ambient temperature range For T6 -20 °C ≤ T_a ≤ +50 °C
 For T4 -20 °C ≤ T_a ≤ +55 °C

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