

Type Examination Certificate CML 21UKEX2902X Issue 1**United Kingdom Conformity Assessment**

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended)
- 2 Equipment **Inductive sensor-cable connection system MEMOSENS consisting of Sensor and measuring cable**
- 3 Manufacturer **Endress+Hauser Conducta GmbH+Co. KG**
- 4 Address **Dieselstr. 24
70839 Gerlingen,
Germany**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.
The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:
EN IEC 60079-0:2018 EN 60079-11:2012
- 10 The equipment shall be marked with the following:



Refer to attached certificate BVS 04 ATEX E 121 X issue 17 for specific marking of explosion protection symbols.

Refer to attached certificate BVS 04 ATEX E 121 X issue 17 for marked code and ambient temperature range.





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11 Description

For product description refer to attached certificate BVS 04 ATEX E 121 X issue 17.

MEMOSENS measuring cable and sensor details – Type, Designation, marking, ambient temperature range:

Type	Designation	Marking	Ambient temperature range
*YK10-M*****+*	Measuring Cable	II 1G Ex ia IIC T3/T4/T6 Ga	-15°C < Ta < +135°C (T3) -15°C < Ta < +120°C (T4) -15°C < Ta < +70°C (T6)
*YK20-UA*****+*	Measuring Cable	II 1G Ex ia IIC T6 Ga	-10°C < Ta < +50°C (T6)
*PS11D-****U***+* *PS12D-****U***+* *PS16D-****U***+*	Orbisint	II 1G Ex ia IIC T3/T4/T6 Ga	-15°C < Ta < +135°C (T3) -15°C < Ta < +120°C (T4) -15°C < Ta < +70°C (T6)
*PS31D-****U***+*	Memosens	II 1G Ex ia IIC T4/T6 Ga	0°C < Ta < +50°C (T4) 0°C < Ta < +70°C (T6)
*PS41D-****U***+* *PS42D-****U***+*	Ceraliquid	II 1G Ex ia IIC T3/T4/T6 Ga	-15°C < Ta < +135°C (T3) -15°C < Ta < +120°C (T4) -15°C < Ta < +70°C (T6)
*PS71D-****U***+* *PS76D-****U***+*	Ceragel	II 1G Ex ia IIC T3/T4/T6 Ga	0°C < Ta < +135°C (T3) 0°C < Ta < +120°C (T4) 0°C < Ta < +70°C (T6)
*PS72D-****U***+*	Ceragel	II 1G Ex ia IIC T3/T4/T6 Ga	-15°C < Ta < +135°C (T3) -15°C < Ta < +120°C (T4) -15°C < Ta < +70°C (T6)
*PS91D-****U***+* *PS92D-****U***+* *PS96D-****U***+*	Orbipore	II 1G Ex ia IIC T4/T6 Ga	0°C < Ta < +110°C (T4) 0°C < Ta < +70°C (T6)
YP01D-****U***+*	Memocheck plus	II 2G Ex ia IIC T6 Gb	-15°C < Ta < +70°C (T6)
YP02D-***U***+*	Memocheck	II 2G Ex ia IIC T6 Gb	-15°C < Ta < +70°C (T6)
*OS22D-UA***B*3***+* *OS22D-UA***D*3***+* *OS22D-UA***E*3***+* COS21D-*12*1	Oxymax Oxymax H	II 1G Ex ia IIC T3/T4/T6 Ga	-15°C < Ta < +135°C (T3) -15°C < Ta < +120°C (T4) -15°C < Ta < +70°C (T6)
COS51D-U*8*0	Oxymax Oxymax W	II 1G Ex ia IIC T6 Ga	-5°C < Ta < +50°C (T6)
	Tophit		



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*PS441D-7***U***+* *PS471D-7**U***+*		II 1G Ex ia IIC T3/T4/T6 Ga	-15°C < Ta < +135°C (T3) -15°C < Ta < +120°C (T4) -15°C < Ta < +70°C (T6)
*PS491D-7**U***+*	Tophit	II 1G Ex ia IIC T4/T6 Ga	-15°C < Ta < +110°C (T4) -15°C < Ta < +70°C (T6)
CLS15D-A**U	Condumax Condumax W	II 1G Ex ia IIC T3/T4/T6 Ga	-20°C < Ta < +135°C (T3) -20°C < Ta < +100°C (T4) -20°C < Ta < +50°C (T6)
CLS15D-B/L**U	Condumax Condumax W	II 1G Ex ia IIC T3/T4/T6 Ga	-20°C < Ta < +135°C (T3) -20°C < Ta < +100°C (T4) -20°C < Ta < +50°C (T6)
*LS21D-***U	Condumax Condumax W	II 1G Ex ia IIC T3/T4/T6 Ga	-20°C < Ta < +135°C (T3) -20°C < Ta < +115°C (T4) -20°C < Ta < +65°C (T6)
*LS16D-****U***+*	Condumax Condumax H	II 1G Ex ia IIC T3/T4/T6 Ga	-5°C < Ta < +135°C (T3) -5°C < Ta < +115°C (T4) -5°C < Ta < +70°C (T6)
*PS171D-UA7*****+*	pH-Sensor	II 1G Ex ia IIC T3/T4/T6 Ga	0°C < Ta < +135°C (T3) 0°C < Ta < +120°C (T4) 0°C < Ta < +70°C (T6)
*PS341D-7***U***+*	pH-enamel Sensor	II 1G Ex ia IIC T3/T4/T6 Ga	-15°C < Ta < +135°C (T3) -15°C < Ta < +120°C (T4) -15°C < Ta < +70°C (T6)
*LS82D-UA*****+*	Conductivity Sensor	II 1G Ex ia IIC T3/T4/T6 Ga	-20°C < Ta < +140°C (T3) -20°C < Ta < +120°C (T4) -20°C < Ta < +70°C (T6)
*OS81D- UA****13/93***+*	Dissolved oxygen sensor	II 1G Ex ia IIC T3/T4/T6 Ga	-10°C < Ta < +130°C (T3) -10°C < Ta < +120°C (T4) -10°C < Ta < +70°C (T6)
*OS81D-UA****33***+*	Dissolved oxygen sensor	II 1G Ex ia IIC T3/T4/T6 Ga	0°C < Ta < +130°C (T3) 0°C < Ta < +120°C (T4) 0°C < Ta < +70°C (T6)

Variation 1:

- Change to ordercode



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12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	12 th Aug 2021	R14449A/00	BVS 04 ATEX E 121 X issue 17 is attached and shall be referred to in conjunction with this certificate.
1	20 Sept 2021	R14606/00	Introduction of Variation 1

Note: Drawings that describe the equipment are listed or referred to in the Annex.

13 Conditions of Manufacture

For conditions of manufacture refer to attached certificate BVS 04 ATEX E 121 X issue 17.

Any routine tests/verifications required by the ATEX certification shall be conducted.

14 Specific Conditions of Use

For specific conditions of use refer to attached certificate BVS 04 ATEX E 121 X issue 17.

Certificate Annex

Certificate Number CML 21UKEX2902X
Equipment Inductive sensor-cable connection system MEMOSENS
consisting of Sensor and measuring cable
Manufacturer Endress+Hauser Conducta GmbH+Co. KG



The following documents describe the equipment defined in this certificate:

Issue 0

For drawings describing the equipment, refer to attached certificate BVS 04 ATEX E 121 X issue 17. In addition to the drawings listed on BVS 04 ATEX E 121 X issue 17, the following drawings include the additional marking required for this Type Examination certification:

Drawing No	Sheets	Rev	Approved date	Title
202319	1 of 1	A	12 th Aug 2021	Nameplate CLS15D-A UKEX

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Drawing No	Sheets	Rev	Approved date	Title
202319	1 of 1	B	20 Sept 2021	Nameplate CLS15D-A UKEX