

Translation

(1) EC-Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) No. of EC-Type Examination Certificate: **BVS 12 ATEX E 037 X**

(4) Equipment: **MEMOSENS Sensor**
 type PL83-xxx NMSN
 type SL83-xxx NMSN
 type H8281-xxx NMSN
 type A7781-xxx NMSN
 type PL89-xxx NMSN
 type SL89-xxx NMSN
 type S26-xxx NMSN
 type A26-xxx NMSN
 type Pt8281-xxx NMSN

(5) Manufacturer: **SI Analytics GmbH**

(6) Address: **55122 Mainz, Germany**

(7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.

(8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the test and assessment report BVS PP 12.2056 EG.

(9) The Essential Health and Safety Requirements are assured by compliance with:

EN 60079-0:2009	General requirements
EN 60079-11:2007	Intrinsic safety 'i'
EN 60079-26:2007	Equipment with equipment protection level (EPL) Ga

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:

 **II 1G Ex ia IIC T3/T4/T6 Ga**

DEKRA EXAM GmbH
 Bochum, dated 23. April 2012

Signed: Dr. Eickhoff

Signed: Dr. Wittler

 Certification body

 Special services unit

- (13) Appendix to
- (14) **EC-Type Examination Certificate**
BVS 12 ATEX E 037 X
- (15) 15.1 Subject and type

Memosens Sensor	type PL83-xxx NMSN	type SL83-xxx NMSN	type H8281-xxx NMSN
	type A7781-xxx NMSN	type PL89-xxx NMSN	type SL89-xxx NMSN
	type S26-xxx NMSN	type A26-xxx NMSN	type Pt8281-xxx NMSN

With the designation "xxx" the sensor shaft length is marked, non Ex-relevant.

15.2 Description

The MEMOSENS Sensors listed above are used in connection with a MEMOSENS measuring cable type CA/MS-***X** (BVS 09 ATEX E 083 X) or with a MEMOSENS measuring cable type CYK10-G**1 (BVS 04 ATEX E 121 X) to measure pH/temperature-parameters in fluid media. The connection between sensor and measuring cable is galvanically safe isolated via a completely isolated connection system up to a sum of peak values of the nominal voltages of 60 V (inductive coupling). The sensors's electronic circuit is completely encapsulated.

15.3 Parameters

The MEMOSENS Sensors may be connected to the MEMOSENS measuring cable type CA/MS-***X** (BVS 09 ATEX E 083 X) or to the MEMOSENS measuring cable type CYK10-G**1*** (BVS 04 ATEX E 121 X).

The MEMOSENS measuring cable type CA/MS-***X** is structurally identical and in hardware and function identical with the MEMOSENS measuring cable type CYK10-G**1. The only difference is the colour of the connecting coupling housing (here black).

Thermal parameters:

Temperature class	Ambient temperature range
T3	$-20\text{ °C} \leq T_a \leq +135\text{ °C}$
T4	$-20\text{ °C} \leq T_a \leq +120\text{ °C}$
T6	$-20\text{ °C} \leq T_a \leq +70\text{ °C}$

- (16) Test and assessment report
BVS PP 12.2056 EG as of 23.04.2012

(17) Special conditions for safe use


- 17.1 The MEMOSENS Sensors may be used in the following ambient temperature range:
Temperature class and ambient temperature range – see section 15.3 parameters.
- 17.2 The sensors may not be operated in electrostatically critical processing conditions.
Intense vapour or dust flows directly impacting on the connection system must be avoided.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
44809 Bochum, 23. April 2012
BVS-Rip/Sp A 20120378



Certification body



Special services unit