

Translation

Type Examination Certificate Supplement 3

Change to Directive 2014/34/EU

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

Type Examination Certificate Number: **BVS 10 ATEX E 134 X**

Product: **Process photometer type MCS300P-Ex**

Manufacturer: **SICK AG**

Address: **Rengoldshauser Straße 17a, 88662 Überlingen, Germany**

This supplementary certificate extends Type Examination Certificate No. BVS 10 ATEX E 134 X to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any variations specified in the appendix attached to this certificate and the documents referred to therein.

DEKRA EXAM GmbH certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in the confidential Report No. PP 11.2011 EU.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 + A11:2013 General requirements
EN 60079-2:2014 Pressurized enclosure "p"

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **II 3G Ex pzc IIC T3...T4 Gc**

DEKRA EXAM GmbH
Bochum, 2017-08-07

Signed: Günther Schumann

Certifier

Signed: Dr Franz Eickhoff

Approver

13 Appendix

14 Type Examination Certificate

BVS 10 ATEX E 134 X Supplement 3

15 Product description

15.1 Subject and type

Process photometer type MCS300P-Ex

15.2 Description

With this supplement the certificate is changed to Directive 2014/34/EU.
(Annotation: In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.)

Description of Product:

The process photometer type MCS300P-Ex measures IR-active and VIS-active components in gases and liquid concentrations in conjunction with process cuvettes for either gas or liquid (e.g. type PGK.. Ex, BVS 10 ATEX E 087 U).

The process photometer consists of two modules, i.e. the receiver and transmitter, between which the cuvette is located. Receiver and transmitter are interconnected by a tube and manufactured to meet the requirements of the type of protection Pressurisation with a compensating effect for leakage. The monitoring of the overpressure and the pre-purging process is provided by system FS 840 S (BVS 15 ATEX E 048 X) in conjunction with auxiliary devices (proportional valve, interface relay).

For temperature control and monitoring of the heatable process cuvette type PGK.Ex the process photometer is equipped with appropriate monitoring electronics.

Reason for the supplement:

- Update to the current standards
- Slightly modifications of the design

15.3 Parameters

15.3.1 Electrical parameters

Supply voltage		115/230	VAC
Power input			
Analyser	max.	230	VA
- with heatable cuvette	max.	805	VA
- with second heatable cuvette	max.	1450	VA

15.3.2 Pneumatic parameters

Free volume	40	dm ³
Min. pre-purge volume	200	dm ³
Min. volume flow	66	dm ³ /min
Min. overpressure	0.8	mbar
Max. overpressure	12	mbar

16 **Report Number**

BVS PP 11.2011 EU, as of 2017-08-07

17 **Special Conditions for Use**

- 17.1 A measuring function with regard to explosion protection is not subject of the type examination.
- 17.2 The setting of the overpressure monitoring device has to comply with the parameters stated in 15.3.2.

18 **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 **Drawings and Documents**

Drawings and documents are listed in the confidential report.

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
Bochum, dated 2017-08-07
BVS-wit/Mu A 20160822



Certifier



Approver