

Translation

EU-Type Examination Certificate

Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

EU-Type Examination Certificate Number: **BVS 19 ATEX G 002 X** Issue: **01**

Equipment: **Portable gas detectors types EX-TEC PM 400, EX-TEC PM 500, EX-TEC PM 550 and EX-TEC PM 580**

Manufacturer: **Hermann Sewerin GmbH**

Address: **Robert-Bosch-Straße 3, 33334 Gütersloh, Germany**

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 PFG-no. 41300519P NIII. This issue of the EU-Type Examination Certificate replaces the previous issue of the EU-Type Examination Certificate BVS 19 ATEX G 002 X including supplements 1 to 2.

Compliance with the Essential Health and Safety Requirements with respect to the measuring function for explosion protection has been assured by compliance with:

**EN 60079-29-1:2016 + A1:2022 + A11:2022
EN 50271:2018**

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. 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:

see TÜV 17 ATEX 171969 X

DEKRA Testing and Certification GmbH
Bochum, 2024-05-15

Signed: Brumm

Managing Director

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15 Product description

15.1 Subject and type

Portable gas detectors types EX-TEC PM 400, EX-TEC PM 500, EX-TEC PM 550 and EX-TEC PM 580

15.2 Description

The gas detection apparatus types EX-TEC PM 400, EX-TEC PM 500, EX-TEC PM 550 and EX-TEC PM 580 are portable equipment for the measurement of flammable gases and vapours mixed with air, of oxygen and of toxic gases. The apparatus can be equipped with up to 4 sensors. It is not necessary that all sensors are equipped. A battery pack integrated into the enclosure serves as power supply.

Reason for this issue

Modification of the software, new type of rechargeable battery

15.3 Parameters

see EU-type examination certificate TÜV 17 ATEX 171969 X

15.4 Measuring function for explosion protection

This EU-type examination certificate covers:

- equipment with software versions 1.100 (main processor), 1.000 (sensor processor) and V7.17.00u.B18 (infrared sensor) in operating modes "Warning" (EX-TEC PM 400, EX-TEC PM 500, EX-TEC PM 550, EX-TEC PM 580) and "Structure" (EX-TEC PM 580)
- measurement of methane propane and n-nonane mixed with air with the catalytic combustion sensor part-no. 1011-0040 in the measuring range 0 % LEL to 100 % LEL (EX-TEC PM 400)
- measurement of methane and propane mixed with air with the infrared sensors part-no. 1011-0035 or 1011-0044 in the measuring range 0 % LEL to 100 % LEL (EX-TEC PM 500, EX-TEC PM 550, EX-TEC PM 580)
- use of the following outputs for safety relevant purposes:
 - display
 - visible and audible alarm indicators
- use of the following accessories:
 - Rechargeable battery pack
 - Battery holder with rechargeable batteries types Fujitsu HR-3UTHC, FDK HR3UWX, FDK HR-3UTGX, Panasonic BK-3HCDE or GP -270AAHC
 - Floating probe (part-no. ZS21-10100)
 - Probe hose 6 m (part-no. ZS18-10100)
 - Flexible hand probe (part-no. ZS32-10000)
 - Flexible probe HG5 (part-no. ZS44-10000)
 - Short probe PM 5 (part-no. 2620-0033)
 - Probe hose HG 1 m nonane (part-no. ZZ27-10100)
 - Test set SPE AutoFlow (PP05-20000)
 - Docking station PM 5 (part-no.LP12-10000)
 - Docking station PM 5-T (part-no.LP12-20000)
 - Power supply M4 (part-no. LD10-10001)

The EU-type examination includes the following deviations from the operating conditions required by EN 60079-29-1:

- Extended range of pressure at operation: 70 kPa to 120 kPa
- Reduced range of humidity of the measured gas: 5 % RH to 95 % RH

16 **Report**

PFG-no. 4130519P NIII as of 2024-05-15

17 **Specific Conditions of Use**

- see EU-type examination certificate TÜV 17 ATEX 171969 X.
- Perform a function test after the equipment is exposed to an impact load. Replace the catalytic sensor of equipment type EX-TEC PM 400 if the sensitivity deviates by more than 20 %.
- Do not de-activate the confidence signal.
- Do not de-activate the signal of the pausing measurement.

18 **Essential Health and Safety Requirements**

Met with respect to the measuring function for explosion protection by compliance with the requirements mentioned in item 9.

19 **Remarks and additional information**

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 Testing and Certification GmbH
Bochum, 2024-05-15



Managing Director