



1 EU – Type Examination Certificate

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU

3 EU – Type Examination Certificate Number: **KIWA 20ATEX0021 X Issue: 1**

Product marking original EU – Type Examination Certificate Number: **ZELM 07 ATEX 0355 X**

4 Product: **VIBXPERT Typ VIB 5.300 Ex - xx**

5 Manufacturer: **PRÜFTECHNIK Dieter Busch GmbH**

6 Address: **Oskar-Messter-Straße 19-21, 85737 Ismaning
Germany**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Kiwa Nederland B.V., Notified Body number 0063 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 confidential ATEX Assessment Report No. 16PP271-01.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0 : 2018 EN 60079-11 : 2012

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU – 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.

12 The marking of the product shall include the following:



II 2 G Ex ib IIC T4 Gb

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Ron Scheepers
Management Director

Issue date:

23 April 2020

First issue:

This certificate shall, as far as applicable, be revised before the date of cessation of presumption of conformity of (one of) the included standards above as communicated in the Official Journal of the European Union.

© Integral publication of this certificate in its entirety and without any change is allowed.

13 SCHEDULE

14 EU – Type Examination Certificate KIWA 20ATEX0021 X Issue No. 1

15.1 Description of Product

The two-channel-FFT-Data Collector and Signal Analyser VIBXPERT Type VIB 5.300 EX – xx serves as hand-guided portable equipment for the preventive maintenance of machines in hazardous locations. The measured values and their parameters are showed on a LCD display. They can be transmitted via Digital connection (RS-232), USB or Ethernet to a computer for storage and processing. The power supply of the device occurs through a built-in rechargeable battery. An optional a leather belt belong to the certification volume.

Ambient temperature range: -10°C to $+60^{\circ}\text{C}$.

15.2 Electrical Data

Analog output circuits (Channel A and B connector, ODU-connector, 7-pol, BG0, 155° coding):
in type of protection intrinsic safety Ex ib IIC , with the following maximum values:
 $U_o = 28\text{ V}$; $I_o = 63\text{ mA}$; $P_o = 300\text{ mW}$; $C_o = 83\text{ nF}$; $L_o = 7\text{ mH}$; $C_i = 54\text{ nF}$; $L_i = 300\text{ }\mu\text{H}$
(Linear characteristic).

or

to the connection of sensors of the series VIB 6.1***DEX with the EC-Type Examination Certificate TÜV 02 ATEX 1865 including associated 1. Supplement and using of the connecting cable type VIB 5.437-2,9

Temperature sensor circuit (NiCrNi connector, QLA connector):
in type of protection intrinsic safety Ex ib IIC , with the following maximum values:
 $U_o = 6\text{ V}$; $I_o = 6\text{ mA}$; $P_o = 8\text{ mW}$; $C_o = 40\text{ }\mu\text{F}$; $L_o = 800\text{ mH}$;
(Linear characteristic).

Digital output circuit (Digital connector, ODU-connector, 7-pol, BG0, 90° coding):
in type of protection intrinsic safety Ex ib IIC , with the following maximum values:
 $U_o = 12\text{ V}$; $I_o = 188\text{ mA}$; $P_o = 600\text{ mW}$; $1,41\text{ }\mu\text{F}$; $L_o = 0,8\text{ mH}$;
(Linear characteristic).

resp.

to the connection to a commercial digital evaluation device (e.g. personal computer) with $U_m = 6\text{ V}$ or interconnection of the associated terminal adaptor VIB 5.330 UNV.

LAN/USB- circuit (LAN/USB-connector, ODU-connector, 10-pol, BG1, 155° coding):
to the connection to a commercial digital evaluation device (e.g. personal computer) with $U_m = 6\text{ V}$ or interconnection of the associated terminal adaptor VIB 5.330 UNV.

Battery charge circuit (ODU-connector, 2-pol, BG0, 30° coding):
only to the connection to a corresponding power supply unit Type VIB 5.322 and only outside of the hazardous locations:
 $U_m = 12\text{ V}$, $I_{\text{max}} = 2\text{ A}$

15.3 Instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

16 ATEX Assessment Report Number

16PP271-01.

13 **SCHEDULE**

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17 **Specific Conditions of Use**

1. The internal battery may only be changed by the manufacturer.
2. Battery charging may occur only outside of hazardous locations by using corresponding power supply unit.
3. Connection of a commercial digital evaluation device (e.g. personal computer) to an interface intended for this purpose may occur only outside of hazardous locations.

18 **Essential Health and Safety Requirements**

All relevant Essential Health and Safety Requirements are covered by the standards listed at section 9.

19 **Drawings and Documents**

As listed in ATEX Assessment Report No. 16PP271-01.