



[1] **EU-Type-Examination Certificate**

[2] Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere – **Directive 2014/34/EU**

[3] **EU-Type-Examination Certificate**

PTZ 16 ATEX 0029 X

Rev. 0

[4] **Applicant:** HAUBER-Elektronik GmbH

[5] **Address:** Fabrikstraße 6
72622 Nürtingen
Germany

[6] **Equipment:** Vibration Control HE100.01, HE100.02 und HE101.01

[7] This Equipment and any acceptable variation thereto are specified in the annex to this certificate and the documents referred to.

[8] Primara Test- und Zertifizier GmbH, Notified Body No. 2572 in accordance with the Council Directive, dated 26th February 2014 (2014/34/EG), certifies that this equipment has been found to comply with the Essential Health and Safety Requirements related to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the directive.
The examination and test results are recorded in the confidential report ZelmEx14615241079.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with to following standards:

EN 60079-0:2012 + A11:2013
EN 60079-11:2012

EN 60079-1:2014
EN 60079-31:2014

[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 annex to this certificate.

[11] This EU-Type-Examination Certificate relates only to the design, examination and tests of specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.

[12] The marking of the equipment shall include the following:



HE100.01, HE101.01
II 2G Ex d IIC T4 Gb
II 2D Ex tb IIIC T120 °C Db

HE100.02
II 2G Ex ib IIC T4 Gb
II 2D Ex ib IIIC T125 °C Db

Kaufbeuren, 2017-02-13

Andreas Aufmuth
Certification body

Horst Haug
ATEX department

EU-type-examination Certificates without signation and stamp shall not be valid.
EU-type-examination Certificates may only be reproduced in entirety and without change.
Extracts or alternations are subject to the Primara Test- und Zertifizier- GmbH.
This document is internally administrated under project no: 16PP267.

[13] Annex

[14] EU-Type-Examination Certificate PTZ 16 ATEX 0029 X

[15] Description of the equipment:

Series HE100:

The vibration control is used for measurement und monitoring the absolute bearing vibration at machines according to the standard DIN ISO 10816.

The model H100.01 is equipped with an integrated cable and is as Ex d / Ex tb-Version variable. The Model HE100.02 is the Ex ib Version of the series HE100 and is equipped with an M12 plug connection. Only Pin 1 and 3 is used the plug connection.

The model HE100.02 is the Ex ib Version of the Series HE100 and is equipped as Standard with an M12 Plug connection and alternatively with an integrated cable, the same design as by the Model HE100.01.

Series HE101:

The vibration control is used for measurement and monitoring the absolute bearing vibration at machines according to the standard DIN ISO 10816. Furthermore this vibration control is equipped with a temperature sensor for measuring the surface temperature of the machine. The Model HE101.01 is only as Ex d / Ex tb-Version available.

[16] Electrical data:

HE100.01		
Max. input voltage vibration control :	U_i	10 V to 30V
Max. input current vibration control :	I_i	4mA to 25mA
HE100.02		
Power supply and signal circuit		
At the ignition protection level intrinsic safety Ex ib IIC or IIIC only for connection with a certified intrinsic safe circuit.		
Maximum values:		
Max. input voltage vibration control :	U_i	27 V DC
Max. input current vibration control :	I_i	93 mA DC
Max. input power vibration control :	P_i	587 mW
Input capacitance vibration control :	C_i	34,1 nF
Input inductance vibration control :	L_i	400 μ H
HE101.01		
Max. input voltage vibration control :	U_i	10 V to 30V
Max. input current vibration control :	I_i	8mA to 50mA

[17] Special conditions:

1. The ambient temperature range is between -40°C and +60°C.
2. The vibration control HE100.02 may only be operated in a certified intrinsically safe circuit according to Ex ib IIC / Ex ib IIIC.
3. Integration into the potential equalization is carried out via the installation.
4. The operating instructions must be observed.
5. The electronic data can be found in the EU-type examination certificate.

[18] Essential Health and Safety Requirements:

Covered by the standards.