



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx PTB 13.0012 Issue No: 0 Certificate history:  
Issue No. 0 (2013-04-02)

Status: **Current** Page 1 of 3

Date of Issue: **2013-04-02**

Applicant: **FHF Funke + Huster Fernsig GmbH**  
Gewerbeallee 15 – 19  
45478 Mülheim an der Ruhr  
**Germany**

Electrical Apparatus: **Sounder**  
*Optional accessory:* **dEV20**

Type of Protection: **d, e, t**

Marking:  
Ex d e IIB + H2 T6 Gb  
Ex tb IIIC T85°C Db

*Approved for issue on behalf of the IECEx  
Certification Body:*

Dr. Uwe Klausmeyer

*Position:*

Head of Department "Flametransmission Processes"

*Signature:*  
*(for printed version)*

*Date:*

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:



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Manufacturer: **FHF Funke + Huster Fernsig GmbH**  
Gewerbeallee 15 – 19  
45478 Mülheim an der Ruhr  
**Germany**

Additional Manufacturing  
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2008</b> Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2006-07</b> Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[DE/PTB/ExTR13.0017/00](#)

Quality Assessment Report:

[DE/BVS/QAR07.0004/06](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Sounder types dEV20 is composed of a housing of type of protection "Flameproof Enclosure" and a terminal compartment of type of protection "Increased Safety". The housing "Flameproof Enclosure" consists of a area circuit and one acoustic area. The acoustics area is designed as a flameproof part for a loudspeaker.

### Electrical ratings

Typ Type	Nennspannung Rated voltage	Rated Stromaufnahme Rated current I <sub>max</sub>	Protection / Schutzeinrichtungen		
			F1	F3	F2
dEV20	24 VDC	450 mA	T 2A	T 0,25A	Rated cut-off temperature Bemessungsab- schalttemperatur 115°C
dEV20	230VAC	100 mA	T 1A	T 0,25A	
dEV20	230VAC	100 mA	T 1A	#	
--	#) F3 non existed, circuit design reduced.				

CONDITIONS OF CERTIFICATION: NO