



(1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

PTB 01 ATEX 1064

(4) Equipment: Signal alarm, types dGW21 and dRGW21

(5) Manufacturer: FHF Funke + Huster Fernsig GmbH

(6) Address: 42551 Velbert, Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems 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 PTB Ex 01-10198.

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

EN 50014:1997 + A1 + A2

EN 50018:1994

EN 50019:1994

(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 schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:

II 2 G EEx de IIC T6

Zertifizierungsstelle Explosionsschutz

By order:

Braunschweig, August 23, 2001

Dipl.-Phys. U. Völkel



(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 01 ATEX 1064

(15) Description of equipment

The signal alarm, types dGW21 and dRGW21, is used as a signal transmitter in alarm, signalling, and call systems. The signal alarm is designed for protection class II. It is connected to the integrated terminal box.

Electrical data

Rated insulation voltage	up to	250 V
Power input	max.	25 VA / 25 W
Rated cross section ^{*)}	max.	2.5 mm ²

(16) Test report PTB Ex 01-10198

(17) Special conditions for safe use

None

(18) Essential health and safety requirements

The tests and the favourable results these have produced reveal that the signal alarm meets the requirements of directive 94/9/EC as well as those of the standards quoted on the cover sheet.

Zertifizierungsstelle Explosionsschutz
By order:

Braunschweig, August 23, 2001

Dipl.-Phys. U. Völkel



2nd SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 01 ATEX 1064

(Translation)

Equipment: EExII signal bell

Marking:  II 2 G EEx de IIC T6

Manufacturer: FHF Funke + Huster Fernsig GmbH

Address: Gewerbeallee 15 - 19
45478 Mülheim a. d. Ruhr, Germany

Description of supplements and modifications

The modifications concern the type "e" terminal compartment in the bottom section of the equipment housing. The equipment, which is fitted with two metal adapters, equipotential bonding and protective conductor connection, is to permit the use of metallic cable entries.

The types affected by this modification are:

dGW21/dRGW21

The detailed description, technical data and the relevant documents are laid down in the test documents that are attached to the test report.

Applied standards

EN 50014:1997 + A1 + A2

EN 50019:1994

Test report: PTB Ex 05-15094

Zertifizierungsstelle Explosionsschutz

Braunschweig, April 20, 2005

By order:

Dipl.-Phys. U. Völkel



Sheet 1/1

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

3rd SUPPLEMENT
according to Directive 94/9/EC Annex III.6
to EC-TYPE-EXAMINATION CERTIFICATE PTB 01 ATEX 1064
(Translation)

Equipment: Signal bell, types dGW21 and dRGW21

Marking:  **II 2 G EEx de IIC T6**

Manufacturer: FHF Funke + Huster Fernsig GmbH

Address: Gewerbeallee 15-19, 45478 Mülheim a.d. Ruhr, Germany

Description of supplements and modifications

The signal bell, types dGW21 and dRGW21 may also be employed in areas in which a potentially explosive atmosphere as a mixture of dust and air can occasionally form.

The marking will thus change to:

 **II 2 G EEx de IIC T6**

 **II 2 D IP66 T 80 °C**

Notes for manufacturing and operation

The signal bell must not be used in areas in which highly charge-generating processes, mechanical friction and separation, discharge of electrons (e.g. in the vicinity of electrostatic coating devices), or pneumatically conveyed dust may occur.

Applied standards

EN 50281-1-1:1998

Test report: PTB Ex 07-17075

Zertifizierungsstelle Explosionsschutz

By order

Dr.-Ing. G. Klaus
Direktor und Professor



Braunschweig, March 1, 2007

Sheet 1/1