

- [1] **EC type approval test certificate**  
**according to Directive 94/9/EC, Appendix III**  
(Translation)
- [2] Devices and protection systems for proper designated use in areas with an increased risk of explosion, **Directive 94/9/EC**
- [3] EC type approval test certificate number: IBExU08ATEX1111
- [4] Device:                                  Wireless hearing protection headset  
Model MT53H7\*\*WS2-\*\*
- [5] Manufacturer:                          ecom instruments GmbH  
[6] Address:                                 Industriestr. 2  
97959 Assamstadt  
Germany
- [7] The design of this device specified under point [4] and its various approved embodiments are defined in the attachment to this type approval test certificate..
- [8] As the nominated body No. 0637, in accordance with article 9 of the Directive 94/9/ European Parliament and the Council, the IBExU Institut für Sicherheitstechnik GmbH certifies the conformance of the device referred to under point [4] with the basic health and safety requirements for the design and construction of devices and protection systems for proper designated use in areas with an increased risk of explosion.  
The results of the test are documented in the confidential test report IB-08-3-230 dated 09.09.2008.
- [9] The basic health and safety requirements are met by virtue of conformance with EN 60079-0:2006, EN 60079-11:2007, EN 61241-0:2006, EN 61241-11:2006 and EN 50303:2000.
- [10] If the certification number is followed by an "X", then this indicates that special conditions exist for the safe operation of the device. These special conditions are specified under point [17] of the appendix to this EC type approval test certificate.
- [11] This EC type approval test certificate only refers to the conception and construction of the specified device. Further requirements contained in this directive may apply with regard to the manufacturing process and the supply of the device.
- [12] The device specified under point [4] must be labelled with the following information:

⊕ I M1 Ex ia I  
⊕ II 2G Ex ia IIC T4  
⊕ II 2D Ex ia D21 T130 °C

-20°C < T<sub>a</sub> < +50°C

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Certification body for explosion protection

Freiberg, 09.09.2008

By order of

Certificates without a signature and seal are not valid. Certificates may only be reproduced in full and without alteration.

(Dr Lösch)

- Seal -  
(ID No. 0637)

**Appendix**

[13] **Appendix**

[14] **to EC type approval test certificate IBExU08ATEX1111**

[15] **Description of the device**

The hearing protection headset is used for wireless communication in explosive areas. The Bluetooth® headset consists of 2 plastic ear pieces and includes an intrinsically safe battery pack, operating buttons and microphone. It can be worn in various ways (via the headband or neckband and helmet-mounted).

**Specifications**

Ambient temperature from -20 to +50 °C

Type designations: MT53H7FWS2-EC  
MT53H7FWS2-50  
MT53H7P\*WS2-EC  
MT53H7P\*WS2-50  
MT53H7BWS2-EC  
MT53H7BWS2-50

Battery pack ACK15-EC; 3,7 V; 850 mAh

Mains charger: FR15-EC; 100-240 VAC

Bluetooth® interface 2.4 - 2.5 GHz; 1 mW

[16] **Test report**

The results of the test are documented in the test report IB-8-3-230. The test documents are part of the test report and are specified therein.

**Summary of the test results:**

The hearing protection headset MT53H7\*\*WS2-\*\* fulfils the requirements of explosion protection for device group I, category M1 and device group II, category 2G and category 2D with the 'intrinsic safety' ignition protection class.

Safety-related information

The battery must be changed outside the ex-area. Only original accessories may be used.

[17] **Special conditions for safe application**

none

[18] **Basic health and safety requirements**

Fulfilled through compliance with various standards (see point [9]).

By order of

Freiberg, 09.09.2008

(Dr. Lösch)