

BUREAU VERITAS

Translation

(1) EC type approval test certificate

(2) Devices and shielding systems intended for regulated use in explosive areas - **Directive 94/9/EC**

(3) EC type approval test certificate number

EPS 11 ATEX 1 345 X

(4) Device: Mobile phone Ex-Handy 07

(5) Manufacturer: ecom instruments GmbH

(6) Address: Industriestrasse 2, D-97959 Assamstadt

(7) The construction of this device and the various permissible details are specified in the appendix to this EC type approval test certificate.

(8) As nominated body no. 2004 in accordance with article 9 of the EC Council Directive dated 23 March 1994 (94/9/EC), Bureau Veritas Consumer Products Services Germany GmbH certifies conformance with the basic health and safety requirements for the design and construction of devices and protective systems for intended use within explosive areas in accordance with appendix II of the Directive. The results of the examination are specified in confidential test report 11TH0213.

(9) The basic health and safety requirements are fulfilled through compliance with:

EN 60079-0:2009

IEC 60079-11:2011

(10) If the character "X" appends the certificate number, it refers to special conditions in the appendix to this certificate for the safe application of the device.

(11) This EC type approval test certificate only relates to the design and structure of the specified device in accordance with Directive 94/9/EC. Further requirements contained in this directive apply to the production and marketing of this device.

(12) The designation of the device must contain the following details:

II 2G Ex ib IIC T4 Gb IP 54

II 2D Ex ib IIIB 130°C Db IP5X

Certification body for explosion protection

Türkheim. 27.09.2011

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(13)

Appendix

(14) **EC type approval test certificate EPS 11 ATEX 1 345 X**

(15) Description of the device:

The explosion-protected mobile phone "Ex-Handy 07" is intended for quad-band communication in explosive Zone 1 and Zone 21 areas (non-conductive dust). It is equipped with additional features such as a camera, GPS functionality, accelerometer, Bluetooth, vibration alarm, headphone jack and flashlight. The Ex-Handy 07 has an integrated aerial. The permitted ambient temperature is -20°C to $+55^{\circ}\text{C}$.

Two different battery packs, which vary in terms of capacity, are available for power supply. Each of the battery packs contains a secondary Li-ion cell, as well as a current and power-limiting safety circuit. The battery pack may only be charged outside the Ex-area. The battery pack is charged, without being removed, via a USB jack in the base unit.

Electrical data:

Power supply (optional)

Battery pack Ex-BPH 07 SC (standard capacity) with battery type
Lishen LP653450RS, 1280 mAh,
 $U_0 = 3,7\text{ V}$ ($U_{0_max} = 4.2\text{V}$), $I_0 = 1.15\text{ A}$, $P_0 = 4.83\text{ W}$
Battery pack Ex-BPH 07 HC (high capacity) with battery type
MoliceI ICP103450CA, 2000 mAh,
 $U_0 = 3.7\text{ V}$ ($U_{0_max} = 4.2\text{V}$), $I_0 = 1.15\text{ A}$, $P_0 = 4.83\text{ W}$

Interface

USB interface, $U_m = 6\text{ V}$, via phone jack for charging the battery and bilateral data transmission. Connection is only permitted via the corresponding charging circuit SBH 07 from ecom.

(16) Test report: 11TH0213

(17) Special conditions:

The battery pack may only be exchanged outside the Ex-area and charged via charging circuit SBH 07. The device must be protected from impacts with high impact energy.

(18) Basic health and safety requirements:

Covered by standards.

Certification body for explosion protection

Türkheim. 27.09.2011