

## (1) EU - Type Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**
- (3) EU - Type Examination Certificate Number

**EPS 16 ATEX 1 043 X**

**Revision 2**

- (4) Equipment: Intrinsically Safe Bluetooth Beacon Loc-Ex 01
- (5) Manufacturer: ECOM Instruments GmbH
- (6) Address: Industriestrasse 2  
97959 Assamstadt  
Germany
- (7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.
- (8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, 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 of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 15TH0223.
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:

**EN IEC 60079-0:2018**

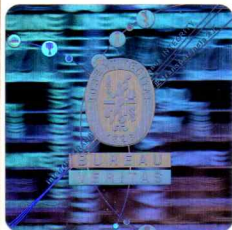
**EN 60079-11:2012**

- (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 and construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.
- (12) The marking of the equipment shall include the following:



II 2G Ex ia IIC T4 Gb IP64

II 2D Ex ia IIIC T125°C Db IP64



Certification department of explosion protection

Tuerkheim, 2022-05-04

Ulrich Feike



Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

(13)

## Annex

(14) **EU - Type Examination Certificate EPS 16 ATEX 1 043 X**

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(15) Description of equipment:

The Bluetooth Beacon Loc-Ex 01 periodically emits a signal that can be recognized by other devices over distances up to 200 m. The beacon signals can be evaluated by mobile devices via individual applications. The Loc-Ex 01 is designed for fixed installation in hazardous areas, both indoor and outdoor.

Permitted accessories: Mounting Plate MP L01.

Electrical data:

Two batteries in parallel, type Thionyl chloride, not rechargeable  
Battery output:  $U_0 = 3.6 \text{ V}$  (nominal) and  $U_0 = 3.9 \text{ V}$  (free wheeling)  
Resistor-limited output power:  $P_0 = 135 \text{ mW}$

The batteries shall only be replaced outside hazardous areas and only by battery types approved by the manufacturer.

(16) Reference number: 15TH0223

(17) Special conditions for safe use:

Maximum ambient temperature range:  $-20 \text{ }^\circ\text{C}$  to  $+55 \text{ }^\circ\text{C}$

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Tuerkheim, 2022-05-04

