




**BUREAU
VERITAS**



EU - Type Examination Certificate

- (1)
- (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 1 017** **Revision 0**
- (4) Equipment: Intrinsically safe RFID and Barcode Scanner type: Ident-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 15TH0175.
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:
- EN 60079-0:2012+A11:2013** **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 examination 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 ib IIC T4 Gb IP64

 II 2D Ex ib IIIC T135°C Db IP64

Certification department of explosion protection

Nuremberg, 2016-05-02


D. Zitzmann

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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. EPS 16 ATEX 1 017, Revision 0.



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(13)

Annex

(14) **EU - Type Examination Certificate EPS 16 ATEX 1 017**

Revision 0

(15) Description of equipment:

The Ident-Ex 01 is a portable handheld barcode and RFID scanner for use in explosive gas and dust hazardous areas Zone 1 and 21. It is a data collecting device. The collected data can be stored in the scanner memory for a later download or they can be transferred to a main device (e.g Smartphone, Tablet or PDA) via Bluetooth.

A further feature is a build-in passive RFID Tag. This can simplify the handling of the equipment, e.g. the Bluetooth pairing process with the devices supporting NFC, or equipment identification.

The Ident-Ex 01 consists of 2 mechanical parts, the basic electronic housing and different head modules.

The following already for the PDA Type i.roc Ci70 -Ex certified head modules can be used:

Head Name	Description
SN-SE955-B*	1D Laser Barcode Scanner
EN-EX25-A*	2D Barcode Imager
NL-TLB30-B*	125/134 kHz LF RFID R/W Module Air Coil
NF-TLB30-B*	125/134 kHz LF RFID R/W Module Ferrite
NH-UNI13-B*	13.56 MHz HF RFID R/W Module
NE-UNI900-A*	868 MHz UHF RFID R/W Module
NU-UNI900-A*	915 MHz UHF RFID R/W Module
SL-SE955-TLB30A*	Kombi Module 1D Barcode + LF RFID
SF-SE955-TLB30A*	Kombi Module 1D Barcode + LF RFID
SH-SE955-UNI13-A*	Kombi Module 1D Barcode + HF RFID
NT-LID-B*	TROVAN LF RFID R/W Module
ST-SE955-LID-A*	Kombi Module 1D Barcode + Trovan

Permissible ambient temperature range: $-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$

Permitted accessories:

- Hand strap HD ID01 – ecom No. A0007005
- Leather holster LH ID01 – ecom No. A0007006

Electrical data:

Power supply:

Supplied by the built in from the user not exchangeable rechargeable battery pack.

$U_{o_heating} = 3.8 \text{ V}$, $U_{o_spark_ignition} = 4.2 \text{ V}$, I_o limited by a fuse 1.5 A

Passive internal RFID - transponder built in the battery pack

Built in Bluetooth module with a radiation power of 4 dBm (= 2.5 mW)



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Installation notes:

The Ident-Ex 01 may only be charged in a not hazardous atmosphere via the charging cable supplied with the device, connected to a USB – charger unit with the maximum voltage 5.5 VDC (see safety instructions).

The head modules may only be changed by the manufacturer or one of its authorized service centers.

(16) Reference number: 15TH0175

(17) Special conditions for safe use:

none

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Nuremberg, 2016-05-02



D. Zitzmann