



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx EPS 16.0008 Issue No: 0 Certificate history:
Issue No. 0 (2016-05-02)

Status: Current Page 1 of 4

Date of Issue: 2016-05-02

Applicant: ecom instruments GmbH
Industriestrasse 2
97959 Assamstadt
Germany

Electrical Apparatus: Intrinsically safe RFID and Barcode Scanner type: Ident-Ex 01
Optional accessory:

Type of Protection: intrinsic safety

Marking: Ex ib IIC T4 Gb IP64
Ex ib IIIC T135°C Db IP64

Approved for issue on behalf of the IECEx
Certification Body:

D. Zitzmann

Position:

Manager Certification

Signature:
(for printed version)

Date:

2016-05-02



1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Manufacturer: ecom instruments GmbH
Industriestrasse 2
97959 Assamstadt
Germany

Additional Manufacturing
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements

Edition:6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition:6.0

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[DE/EPS/ExTR16.0008/00](#)

Quality Assessment Report:

[DE/PTB/QAR07.0004/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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 Blue-tooth pairing process with the devices supporting NFC, or equipment identification.

The Ident-Ex01 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



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Electrical Data:

Power supply:

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

U_{o_heating} = 3.8 V, U_{o_spark_ignition} = 4.2 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)

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.

CONDITIONS OF CERTIFICATION: NO