



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 IBE 13.0035X Issue No: 1 Certificate history:
Issue No. 1 (2015-01-20)
Status: **Current** Page 1 of 4 Issue No. 0 (2013-09-02)
Date of Issue: **2015-01-20**
Applicant: **ecom instruments GmbH**
Industriestraße 2
97959 Assamstadt
Germany
Electrical Apparatus: **Explosion protected PDA type i.roc Ci70 - Ex**
Optional accessory:
Type of Protection: **Intrinsic Safety 'ia'**
Marking: **Ex ia I Ma**
 $-20\text{ °C} \leq T_a \leq +50\text{ °C}$

*Approved for issue on behalf of the IECEx
Certification Body:*

Prof. Dr. Redeker

Position:

Head of Certification Body

*Signature:
(for printed version)*

Date:

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:

IBExU Institut für Sicherheitstechnik GmbH
Certification Body
Fuchsmühlenweg 7
09599 Freiberg
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/IBE/ExTR13.0030/00](#)

[DE/IBE/ExTR13.0030/01](#)

[DE/PTB/ExTR13.0009/01](#)

Quality Assessment Report:

[DE/PTB/QAR07.0004/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Explosion protected PDA type i.roc Ci 70 -Ex is a hand-held communication device intended for use in underground mines. It is used for mobile collection, processing and wireless Transmission of data inside hazardous area. The PDA type i.roc Ci 70 -Ex may be operated optional with listed accessories like case, Holster and scan handle, optionally with SD-Memory Cards and/or SIM Card.

Reader electronics:

NL-TLB30-A*; NL-TLB30- B *

NF-TLB30-A*; NF-TLB30-B*

NH-UNI13-A*; NH-UNI13-B*

NQ-ARE8-A*; NQ-ARE8-B*

NT-LID-A*; NT-LID-B*

NE-UNI900-A*; NU-UNI900-A*

SL-SE955-TLB30-A*; SF-SE955-TLB30-A*

SH-SE955-UNI13-A*; ST-SE955-LID-A*

SN-SE955-A*; SN-SE955-B*;

EN-EX25-A*

WWAN module:

Gobi 3000

Battery pack:

Type AM Ci70 - EX

charging and data connection is only allowed outside of hazardous area (see safety instructions)

CONDITIONS OF CERTIFICATION: YES as shown below:

The hand-held device should be used and protected to low risk of mechanical danger for Group I according to IEC 60079-0, paragraph 26.4.6 and the constant contact of the device with oils, hydraulic liquids and fats should be avoided.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Minor internal changes of the electronics.

New RFID-UHF reader and head module 2D multi range barcode imager added.