

GOVERNMENT APPROVED TEST LABORATORY
IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

IA CERTIFICATE

Date Issued: **15 Dec 2015**
*Expiry date: **15 Dec 2018**
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Issue: 0

Ex – Type Examination Certificate

Certificate Number: **M-XPL/15.1867 X**
Equipment: **Explosion protected PDA**
Model / Type: **i.roc Ci70 - Ex**
Applicant: **Ecom Instruments GmbH**
Industriestr. 2
D-97959 Assamstadt, Baden-Württemberg
Germany
Manufacturer: **ecom instruments GmbH**
Serial No: All serial numbers imported between issued- and expire date and all serial numbers covered by a valid report or acceptable product certification mark.

Supplied by
Ecom Instruments GmbH
Identified by Inspection Authority number
M-XPL/15.1867 X

And as described in the Explolabs file number **XPL/17094/15.1867** is hereby certified "Explosion Protected Ex ia I Ma -20 °C ≤ Ta ≤ +50 °C", having been examined and inspected in accordance with the relevant requirements of South African Standards.

SANS 60079-0: 2012 Ed 5 Explosive atmospheres Part 0: Equipment — General requirements
IEC 60079-0: 2011 Ed 6

SANS 60079-11: 2012 Ed 4 Explosive atmospheres Part 11: Equipment protection by intrinsic safety "**I**"
IEC 60079-11: 2011 Ed 6

Risk of ignition provided:

Protection afforded	Equipment Protection Level (EPL)	Performance of protection	Conditions of operation	T class or Max Surface Temp (°C)
	Group			
Very high	Ma Group I	Two independent means of protection or safe even when two faults occur independently of each other	Equipment remains functioning when explosive atmosphere present	150°C

This certification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 9(2) of the Occupational Health and Safety Act, provided that the apparatus is used as relevant in accordance with:

- i) SANS 10086 and IEC/SANS 61241-14 requirements as applicable;
- ii) Any conditions mentioned in the above report;
- iii) Any relevant requirements and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act; and
- iv) Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health and Safety.
- v) A revision certificate replaces all previous version of the certificate.
- vi) * - Only covers equipment Imported between the "Issued" and "Expire" dates.
- vii) If and when your QAN (Quality Assurance Notification) Certificate for your equipment manufacturer expires during the valid period of the IA Certification (issued for your equipment) and a new certificate is not submitted the existing IA Certification will then be cancelled. It is thus the client's responsibility to always submit the updated and valid QAN certificate(s) to Explolabs (Pty) Ltd

1. GENERAL

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)

2. INSTALLATION INSTRUCTIONS

It is the manufacturer's responsibility to supply installation instructions with each unit offered for sale as required by IEC/SANS 60079-0 Clause 30.

3. SPECIAL CONDITIONS FOR SAFE USE (denoted by X after certificate number)

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.

Based on the following documentation: IECEx IBE 13.0035X Issue No.:1

4. CONDITIONS OF CERTIFICATION

All production units must be covered by a QAN (Quality Assurance Notification), Product Mark Scheme or batch evaluation.

5.

MARKING

The following (or similar) information have to be clearly and permanently marked on all units:

- Supplier : Ecom Instruments GmbH
- Manufacturer : ecom instruments GmbH
- Equipment : Explosion protected PDA
- Model/Type : i.roc Ci70 - Ex
- Serial No. : ---
- Ex Rating : Ex ia I Ma -20 °C ≤ Ta ≤ +50 °C
- IA Certificate No : M-XPL/15.1867 X

Responsible Testing Officer:

Reviewed by:



P van Staden

D Young

Testing Officer

Senior Testing Officer

EXPLOLABS EXPLOSION PREVENTION SERVICES

This report/certificate shall not be reproduced except in full without the written approval of the company Explolabs (Pty) Ltd shall not be liable for any losses or damages sustained on account of any failure or omission to properly perform our duties in terms of any contract undertaken by us. This disclaimer is immutable and automatically incorporated in any contract undertaken by us; notwithstanding anything to the contrary, save for the express written waiver of our managing director. By marking the equipment in accordance with the documentation/standard, the manufacturer attests on his own responsibility that the equipment has been constructed in accordance with the applicable requirements of the relevant standards and that the routine verifications and tests have been successfully completed and that the product complies with the documentation and standard(s). The contents of electronic reports/certificates cannot be guaranteed. Original certification documents will be kept on file at Explolabs (Pty) Ltd

