Operating Manual

iTAG100

TAG-2000

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Document Number **314344** (See Last Page for Revision Details)

Contents

1 Introduction

The iTAG 100 is an intrinsically safe version of the AeroScout T2 Tag and is the most advanced Wi-Fi based Active RFID tag on the market, from the company that originated the Wi-Fi tag industry. The iTAG 100 is a small, long-life Wi-Fi based Active RFID device that can be placed on any asset, allowing the AeroScout system to locate assets that are not Wi-Fi enabled.

2 Safety Information and Notes

2.1 Storage of this Manual

Keep this user manual safe and in the vicinity of the controller. All persons who have to work on or with the controller should be advised on where the manual is stored.

2.2 Essential health and safety requirements

This equipment is designed to satisfy clause 1.2.7 of the Essential Health and Safety Requirement ANNEX II of directive 94/9/EC.

2.3 List of Notes

The notes supplied in this chapter provide information on the following.

- Danger / Warning.
  - Possible hazard to life or health.
- Caution
  - Possible damage to property.
- Important
  - Possible damage to the tag.
- Information
  - Notes on the optimum use of the device

Warning!	**This product can be delivered in a number of different variations, each variant has restrictions on were it can be used. Please read the user instructions fully and ensure that your iTAG100 / TAG2000 is suitable for the hazardous area which it is to be used in.**

Warning!	**iTAG100-2 / TAG2000-X2 and iTAG100-2-CB / TAG2000-C-X2 are coated with a conductive coating, users should check that this coating is not damaged before use. Should the coating be damaged or scratched in an area which is greater than 4cm² the iTAG100-2-xx should not be used in a hazardous area which is greater than gas group IIC.**

Warning!	**All iTAG100 / TAG2000 devices should only be clean with a damp cloth.**

Warning!	**All iTAG100 / TAG2000 devices which are to be used in group II areas, should only be fitted with the iTAG100-B1-II battery. This is a special battery which has an encapsulated end, and should only be installed by a competent person.**

Warning!	**iTAG100 / TAG2000 batteries should only be replaced in the safe area, by a competent person who is approved by the manufacturer.**

Important!	**The device contains no user serviceable parts.**

Important!	**Any repairs or replacement of parts MUST be performed by the manufacturer or its nominated sub-contractor or agent.**

3 Installation and Setting-to-Work

3.1 Assembly and Disassembly

The iTAG100 is provided ready assembled and should not be dismantled by the user.

3.2 Installation

The iTAG100 should be mounted on the asset which desires tracking or worn by the person who is to be tracked.

Warning!	**Attention should be paid to the Temperature Class (T Class) of the area which the asset or person could be entering. Restrictions on the ambient temperature apply to the certification of the iTAG100. Please read the Label and the ATEX certificate at the back of the manual for detail on the maximum ambient temperature permitted for each T Class.**

3.3 Adjustment

No User adjustment is possible of the iTAG100.

4 Intended Purpose Usage

Important	**Before setting the units to work, read the technical documentation carefully.**

Important	**The latest version of the technical documentation or the corresponding technical supplements is valid in each case.**

The iTAG100 is built using modern components and is extremely reliable in operation; however it must only be used for its intended purpose. Please note that the intended purpose also includes compliance with the instructions issued by the manufacturer for installation, setting up and service.
Any other use is regarded as conflicting with the intended purpose. The manufacturer is not liable for any subsequent damage resulting from such inadmissible use. The user bears the sole risk in such cases.

4.1 Transportation and Storage

All iTAG100 devices must be so transported and stored that they are not subjected to any excessive mechanical stresses.

4.2 Authorized Persons

Only persons trained for the purpose are authorized to handle the iTAG100; they must be familiar with the unit and must be aware of the regulation and provisions required for explosion protection as well as the relevant accident prevention regulations.

4.3 Cleaning and Maintenance

The iTAG100 and all its components require no maintenance and are self-monitoring. All work on the iTAG100 by personnel who are not expressly qualified for such activities will cause the Ex approval and the guarantee to become void.

4.4 Safety Precautions

Important	**For the installation, maintenance and cleaning of the units, it is absolutely necessary to observe the applicable regulations and provisions concerned with explosion protection (EN 50014, EN 50020) as well as the Accident Prevention Regulations.**

4.5 Cleaning and Maintenance Intervals

The cleaning intervals depends on the environment where the system is installed.

4.6 Aggressive substances and environments

The iTAG100 is not designed to come into contact with aggressive substances or environments, please be aware that additional protection may be required.

4.7 Exposure to external stresses

The iTAG100 is not designed to be subjected to excessive stresses e.g. vibration, heat, impact. Additional protection is required to protect against these external stresses.

The iTAG100 will require additional protection if it is installed in a location where it may be subjected to damage.

5 Type Codes

5.1 iTAG100.

Part Number	Description
iTAG100-1	iTAG100 suitable for use in a Zone 0 IIA and IIB Gas hazardous area and in a Zone 1 IIC hazardous area
iTAG100-1-CB	iTAG100, fitted with a call button, suitable for use Zone 0 IIA and IIB Gas hazardous area and in a Zone 1 IIC hazardous area
iTAG100-2	iTAG100 suitable for use in a IIC, IIB and IIA Gas Zone 0 hazardous area.
iTAG100-2-CB	iTAG100 fitted with a call button, suitable for use in a IIC, IIB and IIA Gas Zone 0hazardous area.
iTAG100-3	iTAG100 suitable for mining group I use.
iTAG100-3-CB	iTAG100 fitted with call button, suitable for mining group I use.

5.2 iTAG100-B1

Part Number	Description
iTAG100-B1-II	Encapsulated Lithium battery suitable for use in all group II areas.
Xeno Energy XL-050F	Lithium Battery suitable for mining group I.

5.3 TAG-2000

Part Number	Description
TAG-2000-X1	T2 Tag suitable for use in a Zone 0 IIA and IIB Gas hazardous area and in a Zone 1 IIC hazardous area.
TAG-2000-X2	T2 Tag, suitable for use in a IIC, IIB and IIA Gas Zone 0 hazardous area.
TAG-2000-C-X1	T2 Tag fitted with a call button, suitable for use Zone 0 IIA and IIB Gas hazardous area and in a Zone 1 IIC hazardous area
TAG-2000-C-X2	T2 Tag fitted with a call button, suitable for use in a IIC, IIB and IIA Gas Zone 0hazardous area.
TAG-2000-X3	T2 Tag suitable for mining group I use.
TAG-2000-C-X3	T2 Tag fitted with call button, suitable for mining group I use.

6 Certification

Epsilon Compliance Services
Drury Lane, Drury, Buckley
CH7 3DU

Tel: +44 (0)1244 541551
Fax: +44 (0)1244 543888
www.epsilonex.com

EPSILON

1 **EC - Type Examination Certificate**

2 Equipment intended for use in potentially explosive atmospheres

3 Certificate Number: EPSILON 06 ATEX 2075

4 Equipment: RF ID TAG iTAG100-xx-xx see schedule

5 Manufacturer: Extronics Ltd.

6 Address: Meridian House, Roe Street, Congleton, CW12 1PG, UK

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 Epsilon, Notified Body number 1712 in accordance with Article 9 of the Council directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the directive

The examination and test results are recorded in confidential report no RETS(A)1762/B/1-1,2,3,4

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with:

EN 50014: 1997 incl A1 + A2, EN 50020: 2000, EN50284: 1999, EN 50303:2000

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 schedule to this certificate.

11 This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.

12 The marking of the equipment shall include the following:

Ex II 1G EEx ia IIB/IIC T4/T5/T6 (see schedule)

Ex I M 1 EEx ia I (-30°C≤Ta≤+75°C)

On behalf of Epsilon

Date: 06 September 2006

D G Bosson
Certification Manager

Epsilon Compliance Services
Drury Lane, Drury, Buckley
CH7 3DU

Tel: +44 (0)1244 541551
Fax: +44 (0)1244 543888
www.epsilonex.com

13 **Schedule**

14 Certificate Number: EPSILON 06 ATEX 2075

This certificate is valid for the following models:-

Part Number	Description	ATEX coding
iTAG100-IIB	iTAG100 Variant for IIA and IIB Gas Groups.	II 1G EEx ia IIA/IIB T4 (-30°C≤Ta≤+75°C) T5 (-30°C≤Ta≤+45°C) T6 (-30°C≤Ta≤+30°C)
iTAG100-IIC	iTAG100 Variant for IIC Gas Group	II 1G EEx ia IIC T4 (-30°C≤Ta≤+75°C) T5 (-30°C≤Ta≤+45°C) T6 (-30°C≤Ta≤+30°C)
iTAG100-IIB-CB	iTAG100 Variant for IIA and IIB Gas Groups. Fitted with Call Button.	II 1G EEx ia IIA/IIB T4 (-30°C≤Ta≤+75°C) T5 (-30°C≤Ta≤+45°C) T6 (-30°C≤Ta≤+30°C)
iTAG100-IIC-CB	iTAG100 Variant for IIC Gas Group. Fitted with Call Button.	II 1G EEx ia IIC T4 (-30°C≤Ta≤+75°C) T5 (-30°C≤Ta≤+45°C) T6 (-30°C≤Ta≤+30°C)
iTAG100-I	iTAG100 Variant for Mining Group I	I M 1 EEx ia I (-30°C≤Ta≤+75°C)
iTAG100-I-CB	iTAG100 Variant for Mining Group I. Fitted with Call Button.	I M 1 EEx ia I (-30°C≤Ta≤+75°C)
iTAG100-B1-II	Spare battery for above models.	II 1G EEx ia IIC T4 (-30°C≤Ta≤+75°C) T5 (-30°C≤Ta≤+45°C) T6 (-30°C≤Ta≤+30°C)

15 Description of Equipment or protective system

The apparatus is a Wi-Fi based portable active RFID tag, powered from a 3.6V Thionyl Chloride Lithium battery. A personnel emergency call button (CB) is available as a model variant. The apparatus has been designed to comply with the instrinsically safe concept ia.

16 Descriptive Documents

16.1 Report No: RETS(A)1762/B/1-1,2,3,4,5

16.2 Drawings:

Number	Sheet	Date	Issue	Description
313510	1 of 1	09/8/06	1	Main Label drawing
312122	1 of 1	09/8/06	1	Battery ATEX label drawing
313076	1 of 1	09/8/06	1	GA Drawing
311975	1 of 6	21/7/2006	1	iTAG100 Overview
311975	2 of 6	21/7/2006	1	iTAG100 LF receiver
311975	3 of 6	21/7/2006	1	iTAG100 Transceiver
311975	4 of 6	21/7/2006	1	iTAG100 Microcontroller and CPLD
311975	5 of 6	21/7/2006	1	iTAG100 Voltage Regulator
311975	6 of 6	21/7/2006	1	iTAG100 PA Stage

Epsilon Compliance Services
Drury Lane, Drury, Buckley
CH7 3DU

Tel: +44 (0)1244 541551
Fax: +44 (0)1244 543888
www.epsilonex.com

13 **Schedule**

14 Certificate Number: EPSILON 06 ATEX 2075

Number	Sheet	Date	Issue	Description
313113	1 of 1	09/8/06	1	Call Button Detail
313166	1 of 1	09/8/06	1	Switch information Drawing
313127	1 of 1	09/8/06	1	Encapsulation Detail
313053	1 of 2	30/08/06	1	Bill of Materials for iTAG100
313053	2 of 2	30/08/06	1	Bill of Materials for iTAG100

17 Conditions of Certification

17.1 Special Conditions for Safe Use:
None.

17.2 Conditions for Use:
None

18 Essential Health and Safety Requirements
Essential Health and Safety Requirements not covered by section 9: are covered by manufacturer's instructions.

The manufacturer shall inform the notified body of any modifications to the design of the product described by this schedule

Epsilon Compliance Services
Drury Lane, Drury, Buckley
CH7 3DU

Tel: +44 (0)1244 541551
Fax: +44 (0)1244 543888
www.epsilonex.com

EPSILON

Supplement to

Certificate Number: EPSILON 06 ATEX 2075 Dated: 06 September 2006

Variation Number: 01

Variation Detail:

To Permit: the items listed in the schedule to be labeled with the following alternative part numbers.

These have been assessed to be identical in form, fit and function to the models listed in the original certificate.

T2 Tag Part Number	Description	ATEX coding
BWH3000-X1	T2 Tag Variant for IIA and IIB Gas Groups.	II 1G EEx ia IIA/IIB T4 (-30°C≤Ta≤+75°C) T5 (-30°C≤Ta≤+45°C) T6 (-30°C≤Ta≤+30°C)
BWH3000-X2	T2 Tag Variant for IIC Gas Group	II 1G EEx ia IIC T4 (-30°C≤Ta≤+75°C) T5 (-30°C≤Ta≤+45°C) T6 (-30°C≤Ta≤+30°C)
BWH3000-C-X1	T2 Tag Variant for IIA and IIB Gas Groups. Fitted with Call Button.	II 1G EEx ia IIA/IIB T4 (-30°C≤Ta≤+75°C) T5 (-30°C≤Ta≤+45°C) T6 (-30°C≤Ta≤+30°C)
BWH3000-C-X2	T2 Tag Variant for IIC Gas Group. Fitted with Call Button.	II 1G EEx ia IIC T4 (-30°C≤Ta≤+75°C) T5 (-30°C≤Ta≤+45°C) T6 (-30°C≤Ta≤+30°C)
TAC-235	Spare battery for group 2 models above.	II 1G EEx ia IIC T4 (-30°C≤Ta≤+75°C) T5 (-30°C≤Ta≤+45°C) T6 (-30°C≤Ta≤+30°C)
BWH3000-X3	T2 Tag Variant for Mining Group I	I M I EEx ia I (-30°C≤Ta≤+75°C)
BWH3000-C-X3	T2 Tag Variant for Mining Group I. Fitted with Call Button.	I M I EEx ia I (-30°C≤Ta≤+75°C)

On behalf of Epsilon

S D'Henin
Certification Manager

Date: 19 October 2006

CH7 3DU

Tel: +44 (0)1244 541551
Fax: +44 (0)1244 543888
www.epsiloncompliance.com

Supplement to

Certificate Number: EPSILON 06 ATEX 2075 Dated: 06 September 2006

Variation Number: 01

Descriptive Documents:

Number	Sheet	Date	Issue	Description
315255	1	19/10/2006	1	T2 Tag Main label Drawing
315254	1	19/10/2006	1	Battery Atex label drawing

Additional Conditions of Certification:

None

Additional Special Conditions for Safe Use:

None

Epsilon Compliance Services
Deeside Lane, Chester
CH1 6DD

Tel: +44 (0)1244 882590
Fax: +44 (0)1244 882599
www.epsilonex.com

Epsilon

Supplement to EC – Type Examination Certificate

Certificate Number: 06 ATEX 2075 Dated: 09 August 2007

Variation Number: 02

Variation Detail: To permit the following

i) A change in value of capacitors C20 and C21.
ii) An alternative memory chip at U6.
iii) Addition of a drawing from a previous minor change letter.

Descriptive Documents:

Report No: RETS(A)1762/A/1/V2

Drawings:

Document No.	Document Title	Sheets	Issue	Date (yyyy/mm/dd)
317975	iTAG 100 Schematic	1 to 6	02	2007/07/13
313053_02	BOM for iTAG 100	1 and 2	02	2007/07/17
313076	General assembly	1 of 1	02	2007/03/02

Additional Conditions of Certification:

None

Additional Special Conditions for Safe Use:

None

On behalf of Epsilon

S L Clarke
Director

Date: 09 August 2007

Epsilon Compliance Services
Deeside Lane, Chester
CH1 6DD

Tel: +44 (0)1244 882590
Fax: +44 (0)1244 882599
www.epsilonex.com

Epsilon

Supplement to EC- Type Examination Certificate

Certificate Number: 06 ATEX 2075 Dated: 06 September 2006

Variation Number: 03

Variation Detail:

To Permit the following

To allow the use of the encapsulation materials listed

a) Sylgard 170 silicone Elastomer by Dow Corning
b) QSil550 2 component silicone elastomer by ACC Silicones.

Descriptive Documents:

Document No.	Document Title	Sheets	Issue	Date (dd/mm/yyyy)
313076	General assembly	1 of 1	03	26/11/2007
313510	Main label Drawing	1 of 1	02	29/11/2007
311975	iTAG 100 Schematic	1 to 6	03	19/10/2007
313053	BOM for iTAG 100	1 to 2	03	14/12/2007
313113	Call Button Detail	1 of 1	02	14/12/2007

Additional Conditions of Certification:

None

Additional Special Conditions for Safe Use:

None

On behalf of Epsilon

S D'Henin
Director

Date: 17 December 2007

Epsilon Compliance Services
Deeside Lane, Chester
CH1 6DD

Tel: +44 (0)1244 882590
Fax: +44 (0)1244 882599
www.epsilonex.com

Epsilon

Supplement to EC- Type Examination Certificate

Certificate Number: 06 ATEX 2075 Dated: 06 September 2006

Variation Number: 04

Variation Detail:

To Permit the following:-

1) Update the certificate to allow any configuration of PCB / Components under potting.
2) Include a IIC Zone 1 Version of the tag which is not coated with anti-static coating.
3) New Battery protection method using conformal coating.
4) New battery connection method, using wires.

Descriptive Documents:

Document No.	Document Title	Sheets	Issue	Date (yyyy/mm/dd)
313076	General assembly	1 of 1	04	2009/03/30
313113	Call button detail	1 of 1	03	2008/05/20
313127	Encapsulation detail	1 of 1	02	2009/06/24
313510	Label	1 of 1	03	2009/06/25

Additional Conditions of Certification:

None

Additional Special Conditions for Safe Use:

None

On behalf of Epsilon

S D'Henin
Certification Manager

Date: 07 October 2009

Certificate 06 ATEX 2075 Variation Number: 04

Page 1 of 1

1. SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3. Supplementary EC-Type Examination Certificate Number: **EPSILON06ATEX2075/V5**

4. Equipment or Protective System: **iTAG100**

5. Manufacturer: **Extronics Ltd.**

6. Address: 1 Dalton Way, Midpoint 18, Middlewich, Cheshire, UK, CW10 0HU.

7. This supplementary certificate extends EC-Type Examination Certificate Number EPSILON07ATEX2075 to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having variations specified in the Schedule attached to this certificate and the documents therein referred to.

   Intertek Report 11053861A1 dated 26 September 2011.

   This Supplementary Certificate shall be held with the original Certificate

   EPSILON06ATEX2075 dated 06 September 2006.
   EPSILON06ATEX2075/V1 dated 19 October 2006.
   EPSILON06ATEX2075/V2 dated 09 August 2007.
   EPSILON06ATEX2075/V3 dated 17 December 2007.
   EPSILON06ATEX2075/V4 dated 07 October 20098.

P Moss
Certification Officer
26 September 2011

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977
http://www.intertek.com
Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER: EPSILON06ATEX2075/V5

VARIATION FIVE

Description of the Variation to the Equipment or Protective System.

To permit the following change:

Change of company address from "Meridan House, Roe Street, Congleton, Cheshire, CW12 4PG" to "1 Dalton Way, Midpoint 18, Middlewich, Cheshire, CW10 0HU, UK".

The label drawing detailed below has been updated and replaces the version detailed in the original certificate schedule.

Report No

Intertek Report Ref: 11053861A1, dated 26 September 2011.

CONDITIONS OF CERTIFICATION

(a) Special Conditions for Safe Use:

Conditions listed on the original certificate still apply.

(b) Conditions for Use (Routine Tests):

Conditions listed on the original certificate still apply.

Essential Health and Safety Requirements

See original certificate

DRAWINGS

Number	Issue	Date	Description
312122	2	26/08/11	Battery ATEX label drawing
313501	4	26/08/11	Main label Drawing

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977
http://www.intertek.com
Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

7 EC Declaration of Conformity

Hazardous Area Specialists

EC Declaration of Conformity

Extronics Ltd, 1 Dalton Way, Midpoint 18, Middlewich, Cheshire CW10 0HU, UK

Declare under sole responsibility that the products;

iTAG100-1
iTAG100-2
iTAG100-3
iTAG100-1-CB
iTAG100-2-CB
iTAG100-3-CB
TAG2000-X1
TAG2000-X2
TAG2000-X3
TAG2000-C-X1
TAG2000-C-X2
TAG2000-C-X3

To which this declaration relates is in accordance with the provision of the following directives

94/9/EC Equipment and protective systems intended for use in potentially explosive atmospheres.

1999/5/EC Radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity

EC type examination certificate:
EPSILON06ATEX2075, latest supplement EPSILON06ATEX207/V5 dated 26/09/2011

Provisions of the directive fulfilled by the equipment:

iTAG100-1 /-1CB & TAG2000-X1 / -C-X1	ATEX II 1G EEx ia IIB T4/T5/T6 ATEX II 2G EEx ia IIC T4/T5/T6
iTAG100-2 /-2CB & TAG2000-X2 / -C-X2	ATEX II 1G EEx ia IIC T4/T5/T6 T4 (-30°C ≤Ta ≤ +75°C), T5 (-30°C ≤ Ta ≤ +45°C), T6 (-30°C ≤ Ta + ≤30°C),
iTAG100-3 /-3CB & TAG2000-X3 / -C-X3	ATEX I M1 EEx ia I (-30°C ≤ Ta ≤ +75°C),

Notified body EC type examination:
Intertek, Intertek House, Cleeve Road, Leatherdead, Surry, KT22 7SB

Extronics Notified Body for Production:
SIRA, 0518, Sira, Chester, UK

And is in conformity with the following standards or other nominative documents

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Extronics Ltd · 1 Dalton Way · Midpoint 18 · Middlewich · CW10 0HU Tel +44 (0)845 277 5000 Fax +44 (0)845 277 4000 E-mail info@extronics.com Web www.extronics.com
Incorporated in England and Wales. Registration No. 3076287

Hazardous Area Specialists

EN50014:1997 Inc A1 + A2	Electrical apparatus for potentially explosive atmospheres. General requirements (A review against EN60079-0:2009, which is harmonised, shows no significant changes relevant to this equipment so EN 50014:1997 Inc A1 + A2 continues to represent "State of the Art")
EN50020:2000	Electrical apparatus for potentially explosive atmospheres. Intrinsic safety 'i' (A review against EN60079-1:2007, which is harmonised, shows no significant changes relevant to this equipment so EN 50020:2000 continues to represent "State of the Art")
EN50284:1999	Special requirements for construction, test and marking of electrical apparatus of equipment group II, category 1 G
EN50303:2000	Group I, Category M1 equipment intended to remain functional in atmospheres endangered by firedamp and/or coal dust
EN300 328-1 V1.3.1 2001	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised EN covering essential requirements under Article 3(2) of the R&TTE Directive
EN300 328-2 V1.2.1 2001	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised EN covering essential requirements under Article 3(2) of the R&TTE Directive
EN300 330-1 V1.3.1 2002	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 2: Harmonised EN under Article 3(2) of the R&TTE Directive
EN301 489-1 V1.4.1 2002	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
EN301 489-3 V1.4.1 2002	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz
EN301 489-17 V1.2.1 2002	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

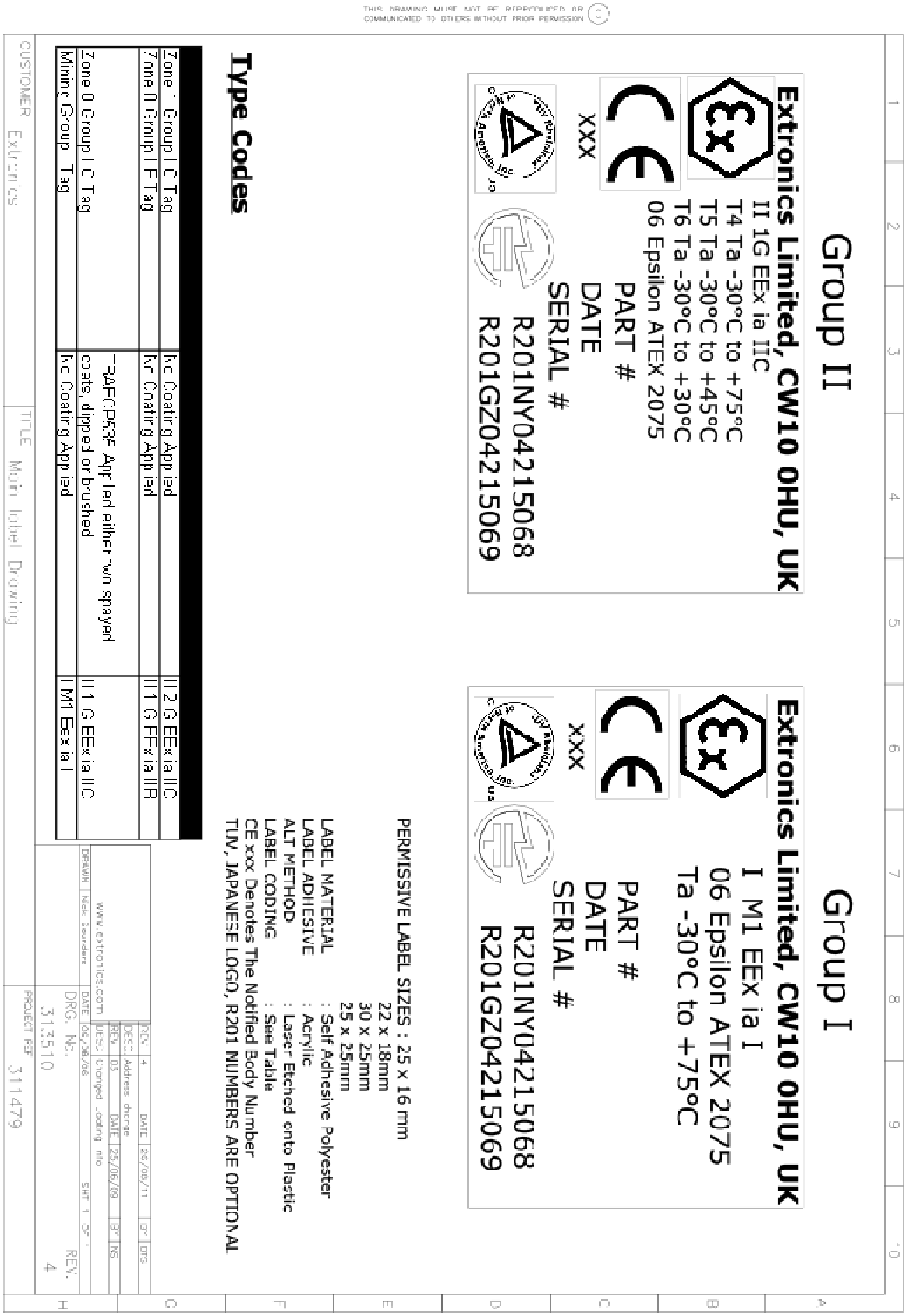
Signed Date : 02/11/2011

Ben Seaby

Ben Seaby
Development Manager

Extronics Ltd · 1 Dalton Way · Midpoint 18 · Middlewich · CW10 0HU Tel +44 (0)845 277 5000 Fax +44 (0)845 277 4000 E-mail info@extronics.com Web www.extronics.com
Incorporated in England and Wales. Registration No. 3076287

8 Label Drawing



9 Manual Revision

Revision	Description	Date	By
01	Atex Certification	27/7/06	NS
02	Added new picture on front cover	16/10/06	JDH
03	Added new picture on front cover	19/04/07	JE
04	Added EC Declaration	05/06/07	NS
05	Amendments Made	23/12/08	JE
06	New EC Declaration / Label Drawing	29/01/10	JE
07	New EC DoC, updated label drawing, new certificate added	02/11/11	AR