EC - TYPE EXAMINATION CERTIFICATE

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

3 EC - Type Examination Certificate Number: **Baseefa11ATEX0191X**

4 Equipment or Protective System: **Type iBATT100 Battery Container**

5 Manufacturer: **Extronics Limited**

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

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa, Notified Body number 1180, 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 the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR11.0189/00**

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

EN 60079-0: 2009 and EN 60079-7: 2007

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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 and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

⟨Ex⟩ II 2G Ex e IIC T6 -20°C ≤ T_a ≤ 55°C Gb IP23

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **3700**

Project File No. **11/0072**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa

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Extronics Released

13 **Schedule**

14 **Certificate Number Baseefa11ATEX0191X**

15 Description of Equipment or Protective System

The Type iBATT100 Battery Container consists of a fabricated stainless steel or mild steel enclosure 612mm by 515mm by 371mm with a hinged front cover secured by 4 x ½ turn locks. There are labyrinth vents with foam mesh on the top and bottom side of the enclosure. The inner surface of the enclosure is covered with an epoxy spray coating

The enclosure contains two 12 volt lead acid batteries connected in series with a rated capacity of 135Ah. The maximum charging current is 40.5A and the maximum discharge current is 160A. The batteries sit horizontally on shelves and are clamped in place.

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17 Special Conditions for Safe Use

1. If charging takes place within the hazardous area the charging circuit must meet the requirements of EN 60079-7 and have its own appropriate ATEX certification. The maximum charging current must be limited to 40.5A.
2. Any load connected to these batteries must include a 160A fuse in the supply line. If the fuse is located in a hazardous area it must be appropriately certified.
3. If the batteries are to be disconnected in a hazardous area then an appropriately certified means of isolation must be provided.
4. These batteries must not be subjected to mechanical shock.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
330521	1	REL01	25/8/11	General arrangement
331444	1	01	12/8/11	Label

These drawings are common to and held with IECEx BAS11.0097X

Extronics Released

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:	**Baseefa11ATEX0191X/1**
4	Equipment or Protective System:	**Type iBATT100 Battery Container**
5	Manufacturer:	**Extronics Limited**
6	Address:	**1 Dalton Way, Midpoint 18, Middlewich, Cheshire, CW10 0HU**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa11ATEX0191X 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 any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **3700**

Project File No. **12/0409**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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On behalf of
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13 # Schedule

14 ## Certificate Number Baseefa11ATEX0191X/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

To allow the use of up to two FIAMM Type 12FLB540 batteries in each enclosure. These may be used to replace FIAMM Type 12FLB500 batteries covered by the original certification without changing the certification label.

Variation 1.2

To allow the use of up to four 2 volt Enersys Type SBS300 batteries in each enclosure with a rated capacity of 310Ah. The designation of the product then becomes a **Type iBATT101 Battery Container**. Constant voltage charging is recommended but if constant current charging is applied the maximum charging current is 15.4A. The maximum discharge current is 300A. Specific Conditions of use on the original certificate do not apply to this configuration and are replaced by those listed at section 17 of this certificate.

The ambient temperature range for the Type iBATT101 Battery Container is -20°C to +50°C.

Variation 1.3

The bottom vent of the enclosure is no longer needed resulting in an increased IP rating of IP43

16 Report Number

GB/BAS/ExTR12.0227/00

17 Specific Conditions of Use

Those listed previously still apply to the **iBATT100** except that number 2 is modified as below:

2. Any load connected to these batteries must include a fuse rated no more than 160A in the supply line. If the fuse is located in a hazardous area it must be appropriately certified.

For the **iBATT101** the following apply:

1. If charging takes place within the hazardous area the charging circuit must meet the requirements of EN 60079-7 and have its own appropriate ATEX certification. If constant current charging is applied the maximum charging current must be limited to 15.4A.
2. Any load connected to these batteries must include a fuse rated no more than 300A in the supply line. If the fuse is located in a hazardous area it must be appropriately certified.
3. If the batteries are to be disconnected in a hazardous area then an appropriately certified means of isolation must be provided.
4. These batteries must not be subjected to mechanical shock.
5. Discharge of the SBS300 batteries must be isolated when the voltage per cell drops below 1.6V.

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

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19 Drawings and Documents

Number	Sheet	Issue	Date	Description
330521	1	REL02	16/8/12	General arrangement
331444	1	02	16/8/12	Label

These drawings are common to and held with IECEx BAS11.0097X

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