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 BAS 17.0129X

Issue No: 0

Certificate history:
Issue No. 0 (2019-05-21)

Status: **Current**

Date of Issue: **2019-05-21**

Applicant: **Extronics Limited**
1 Dalton Way,
Midpoint 18,
Middlewich,
Cheshire,
CW10 0HU
United Kingdom

Equipment: **iUPS101 Control Unit**
Optional accessory:

Type of Protection: **Flameproof, Increased Safety**

Marking:
Ex db[eb] IIB T6 Gb (-20°C ≤ Ta ≤ +xx°C*) *see schedule

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: Technical Manager

Signature:
(for printed version)

M POWNEY
Certification
Manager

Date: 21/5/19

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:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom

Extronics Issued

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Manufacturer:	**Extronics Limited** 1 Dalton Way, Midpoint 18, Middlewich, Cheshire, CW10 0HU **United Kingdom**	

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 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-7 : 2015 **Edition:5.0**	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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:

GB/BAS/ExTR17.0369/00

Quality Assessment Report:

GB/SIR/QAR08.0025/09

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The iUPS101 Control Unit comprises a Type EJB-61 Enclosure with a rectangular window in the cover as manufactured by F.E.A.M. The cover is secured to the enclosure base by 24 off stainless steel socket head cap screws of grade A2-70.

In addition to the rectangular viewing window, the cover may be fitted with up to 10 push-button actuators or indicator lamps. The underside of the cover is fitted with a control/display module aligned with the actuators and window.

The interior of the enclosure comprises an assembly of up to the following component parts/modules, all mounted either from the steel baseplate or on the steel UPS framework:-

a. An Un-interrupted Power Supply (UPS) assembly incorporating :-

i. A UPS Printed Circuit Board.

ii. Three 24V cooling fans.

iii. A large toroidal transformer.

iv. A series of smaller toroidal & current transformers.

v. A coin cell replacement PCB.

b. A battery protection module PCB.

c. Two contactors.

d. Two current sense PCBs.

e. Three input/output circuit protection fuses.

f. Three copper busbars.

The unit is designed to operate from both a 230V a.c. 120V a.c. 24V d.c. or 48V d.c. An external battery pack, gives an uninterrupted output of 230V a.c. at up to 3kVA (together with top-up battery charging).

In addition the unit output may be de-rated for use at different maximum ambient temperatures as follows:-

Maximum output rating	Maximum Ambient
Up to 3kVA	40°C
Up to 2.5kVA	45°C
Up to 2kVA	50°C
Up to 1kVA	55°C

The enclosure base includes multiple cable entries of sizes up to 2" NPT or M63 for the accommodation of flameproof cable entry devices, these maybe used with or without the interposition of a flameproof thread adapter. In addition suitably certified breather drain devices may also be fitted. Unused entries are to be fitted with suitable certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and shall be certified as Equipment.

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SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The widths of the flameproof joints are superior than those specified in tables of 60079-1 standard.
2. It is the responsibility of the installation engineer to ensure that suitably IECEx/ATEX equipment certified gas group IIB cable glands, blanking plugs and breather/drains are installed in accordance with IEC60079-14 to ensure that the IP rating of IP66 is maintain on the Ex d enclosure.
3. During the installation, the user will take into consideration that the windows of the enclosures underwent only a shock corresponding to an energy of a low risk at 2 J.
4. During the installation, the user will take into consideration that pilot light type EFL*PC* underwent only a shock corresponding to an energy of a low risk at 2J.
5. 'warning, potential electrostatic charging hazard – see instructions'

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