



# 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](http://www.iecex.com)

Certificate No.: IECEx BAS 14.0039X issue No.:1

Status: **Current**

Certificate history:  
Issue No. 1 (2016-1-28)  
Issue No. 0 (2014-11-20)

Date of Issue: 2016-01-28 Page 1 of 4

Applicant: **Compac Industries Limited**  
52 Walls Road  
Penrose  
Auckland 1061  
New Zealand

Electrical Apparatus: **C4000 Mk II Power Supply Unit CI138 & CI139**  
*Optional accessory:*

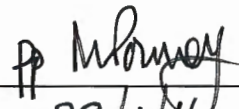

Type of Protection: **Flameproof & Intrinsic safety**

Marking: **Ex db [ia IIA Ga] IIA T4 Gb (-40°C ≤ Ta ≤ +55°C)**

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

Position: Technical Manager

Signature:  
(for printed version)

  
29/1/16 

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:

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





# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 14.0039X

Date of Issue: 2016-01-28

Issue No.: 1

Page 2 of 4

Manufacturer: **Compac Industries Limited**  
52 Walls Road  
Penrose  
Auckland 1061  
**New Zealand**

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 60079-1 : 2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition: 7.0

**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:

GB/BAS/ExTR14.0096/00

GB/BAS/ExTR14.0097/00

GB/BAS/ExTR15.0366/00

#### Quality Assessment Report:

AU/TSA/QAR08.0008/04



# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 14.0039X

Date of Issue: 2016-01-28

Issue No.: 1

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The C4000 Mk II Power Supply Unit CI138 & CI139 comprises a base assembly and a cover retained by 16 M10 socket head cap screws, the base assembly and cover are manufactured from cast aluminium alloy and a seal is provided between the base and cover. The flameproof enclosure houses power supply components and/or electrical connections rated for operation at up to and including 240V and 10A, AC. The base assembly has up to ten M20 x 1.5 entries positioned 5 on each long side of the enclosure on the top and one M20 x 1.5 entry on the bottom of the long side wall, for the accommodation of flameproof cable entry devices Type BA-GLND-C41E within the provisions of this certificate, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with Type BA-PLUG-20E plugs within the provisions of this certificate.

Other cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

The C4000 Mk II Power Supply Unit CI138 & CI139 comprises two printed circuit boards. The two boards CI138 & CI139, interconnected by plug and socket connectors and are mounted within a flameproof enclosure which provides suitable hazardous area protection. The apparatus provides power supply rails suitable for both the Intrinsically Safe circuits and the Non-Intrinsically Safe circuits of the C4000 Fuel Meter. The lower ambient limit for the C4000 Mk II Power Supply Unit p.c.b. CI138 & CI139 may be marked as -25°C when mounted local to other temperature limited equipment, but the C4000 Mk II Power Supply Unit CI138 & CI139 remains identical to that marked as suitable for -40°C.

The printed circuit board CI139 provides a Non-Intrinsically Safe +5V supply from a separate mains transformer (T1), for connection to the triac and communication circuits which are not related to the hazardous area circuits.

The two printed circuit boards CI138 & CI139 are interconnected with plug and socket connections and may include an optional communications printed circuit board, CI184 Triscan Interface Board.

Printed circuit board CI138 provides ten low current TRIACS circuits for switching external loads, two of which can be used to drive high current TRIACS. Also provided is a COMS interface circuit for data communication with external equipment.

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. The C4000 Mk II Power Supply Unit CI138 & CI139 must only be connected to the CI140 Microprocessor and CI196 Triscan Splitter printed circuit boards which forms a part of the C4000 Fuel Dispenser Control Unit Coded Ex ib IIA T4 Gb Certificate Number Baseefa14ATEX0237X and IECEx BAS 14.0107X.

2. For replacement purposes the cover fixing screws shall be of stainless steel grade A2-70 or stronger.

3. Painting and surface finishes on the enclosure assembly, other than those applied by the manufacturer, are not permitted.



# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 14.0039X

Date of Issue: 2016-01-28

Issue No.: 1

Page 4 of 4

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

### Variation 1.1

To update the C4000 Mk II Power Supply Unit CI138 & CI139 to the latest edition of the following standard:  
IEC 60079-1:2014 Edition 7

The marking of the equipment has changed from the original Certificate and is now:

Ex db [ia IIA Ga] IIA T4 Gb (-40°C ≤ Ta ≤ +55°C)

ExTR: GB/BAS/ExTR15.0366/00

File Reference: 15/0515