



# 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 SIR 09.0039** issue No.: **0** Certificate history: \_\_\_\_\_

Status: **Current**

Date of Issue: **2010-01-04** Page 1 of 3

Applicant: **Petrel Limited**  
Fortnum Close  
Kitts Green  
Birmingham B33 0LB  
United Kingdom

Electrical Apparatus: **Series 9R Fluorescent Luminaire**  
Optional accessory:

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

Marking: **Ex de IIC T4 Gb Ta = -20°C to +55°C**  
**Ex de IIC T5 Gb Ta = -20°C to +25°C**  
**Ex tc IIIB T135°C Dc IP55 Ta = -20°C to +55°C**  
**Ex tc IIIB T100°C Dc IP55 Ta = -20°C to +25°C**

Approved for issue on behalf of the IECEx Certification Body: **C Ellaby**

Position: **Certification Officer**

Signature:  
(for printed version)

Date:

2010-01-04

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:

**SIRA Certification Service**  
Rake Lane  
Eccleston  
Chester  
CH4 9JN  
United Kingdom

**sira**  
CERTIFICATION





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Manufacturer: **Petrel Limited**  
Fortnum Close  
Kitts Green  
Birmingham B33 0LB  
United Kingdom

**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:

<b>IEC 60079-0 : 2007-10</b> Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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/SIR/ExTR09.0181/00

Quality Assessment Report:

GB/SIR/QAR08.0014/01



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## Schedule

### EQUIPMENT:

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

The Series 9R Fluorescent Luminaires are rated at 110 V to 277 V, for use with T8 bi-pin lamps and having outputs of 2x18 W, 2x36 W and 2x58 W. An emergency version of each type may also be manufactured with an inverter and battery pack.

The ballast enclosure, which is fitted to all luminaires, and the microswitch, which may be fitted to disconnect the supply when the cover is removed, have been assessed against EN 50018:2000 and are suitable for group IIC gasses.

The Manufacturer shall comply with the following condition of manufacture:

1. A 1500 Vrms electrical strength test shall be applied for at least 60 s in accordance with clause 6.1 of IEC 60079-7 between the live parts of the terminals and bushing and the outer case. The internal components of the Ex d enclosure may be disconnected for this test. Alternatively, the test shall be performed at 1.2 times this voltage and the duration shall be at least 100 ms in accordance with clause 7.1 of IEC 60079-7.

### CONDITIONS OF CERTIFICATION: NO