



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX ICS 21.0008X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2021-06-11
Applicant: **Pratley Manufacturing and Engineering (pty) Ltd**
Jackson Street
Factoria
Krugersdorp
South Africa
Equipment: **Flameproof Envirobox N° 1 x 4**
Optional accessory:
Type of Protection: **Flameproof and Dust Ignition Proof**
Marking: Ex db I Mb
Ex db IIB + H₂ T* Gb
Ex tb IIIC T*°C Db
IP66/68 (300m)
*Refer to table 3 below in description
-40°C to +55°C

Approved for issue on behalf of the IECEx
Certification Body:

Francoius du Toit

Position:

Certification Authority

Signature:
(for printed version)

Date:

2021-06-11

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 www.iecex.com or use of this QR Code.



Certificate issued by:

South Africa Mining and Surface Certification (MASC)
45 Jurg Street
Lelyta Park Unit 5
Hennospark Ext 87, Centurion, 0157, Gauteng
South Africa





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Manufacturer: **Pratley Manufacturing and Engineering (pty) Ltd**
Jackson Street
Factoria
Krugersdorp
South Africa

Additional
manufacturing
locations:

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with 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:

[ZA/ICS/ExTR21.0006/00](#)

Quality Assessment Report:

[GB/SIR/QAR06.0042/07](#)



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Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Flameproof Envirobox serves as a junction box or enclosure to house small components within the defined limits of the schedule drawings and power dissipation table below.

It is manufactured from Pratley glass-fibre reinforced thermoset plastic in a cylindrical shape with a diameter of 145mm and height of 102mm.

Refer to the attached Annex for full description.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to attached Annex for Specific Conditions of Use.

Annex:

[Annex to Certificate 21.0008X.pdf](#)



IECEx Certificate of Conformity – Annex



Certificate No.: IECEx ICS 21.0008X **Issue:** 0 **Date:** 2021-06-11
Electrical Apparatus: Flameproof Envirobox N° 1 x 4

1. EQUIPMENT

General product information:

The Flameproof Envirobox serves as a junction box or enclosure to house small components within the defined limits of the schedule drawings and power dissipation table below. It is manufactured from Pratley glass-fibre reinforced thermoset plastic in a cylindrical shape with a diameter of 145mm and height of 102mm. The cable entry locations are orthogonally fitted in the curved sidewall and may consist of a M25, M20 or any other thread form and size (Metric or NPT) smaller than M25. The entry point locations are available in various quantities too. The lid is fitted with an elastomeric gasket and is fixed to the base with eight M6 x 1.0 x 30 SHCS (A2-70).

There is a facility for the connection of an earthing or equipotential bonding conductor provided inside and with the provision for an optional external connection outside the main body by an earth connection arrangement.

The certification details are shown below.

Combinations of terminals and/or other components may be fitted, provided the maximum power dissipation does not exceed the maximum rated dissipated power in table 3 below. No energy storing electronics, cells, batteries or switch gear components may be fitted inside the enclosure.

Table 3 - Operating Temperatures		
Temp Range:	-40 to 55C	
T amb. [C]	T6	T5
	Diss. Power [W]	
40	2.22	4.04
45	1.62	3.44
50	1.01	2.83
55	0.4	2.22

Specific Conditions of Use:

Conditions of certification / manufacture:

- None

Special conditions of use:

- No energy storing electronics, cells, batteries or switch gear components may be fitted inside the enclosure.
- Only suitably certified glands, adaptors, blanking plugs may be used in all apertures. All unused entries must be sealed using suitably certified blanking elements
- The internal power losses for the enclosure may not exceed the values as per Table 3 in the description above.
- Installation/supply cable must comply with suitable current rating as applicable, keeping in mind the deratings for ambient/service temperatures.
- Use only fasteners with grade (or higher) as per equipment description in the general product information.