

(1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number

TÜV 21 ATEX 8777 X

Issue: 00

- (4) Equipment: **Flameproof Envirobox N° 1 x 4**
(5) Manufacturer: **Pratley Manufacturing & Engineering (Pty) Limited**
(6) Address: **Jackson Street, Factoria
Krugersdorp, Republic of South Africa**

- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which 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 atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557/Ex8777.00/21

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN IEC 60079-0:2018

EN 60079-1:2014

EN 60079-31:2014

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



I M 2 Ex db I Mb
II 2 G Ex db IIB+H2 T* Gb
II 2 D Ex tb IIIC T* Db

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2022-04-08

Dipl.-Ing. Christian Mehrhoff



This EU-Type Examination Certificate without signature and stamp shall not be valid.
This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114



(13)

Annex

(14)

EU Type Examination Certificate

TÜV 21 ATEX 8777 X

Issue: 00

(15) Description of equipment

15.1 Equipment and type:

Flameproof Envirobox N° 1 x 4

15.2 Description / Details of Change

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 "Operating Temperatures" below. No energy storing electronics, cells, batteries or switch gear components may be fitted inside the enclosure.

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

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Technical Data

Environmental data

Ingress protection: IP 66/68 (300m)
The rated ambient temperature range is -40°C to +55°C.

(16) Test-Report No. 557/Ex8777.00/21

(17) Special Conditions for safe use

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

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

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