

GOVERNMENT APPROVED TEST LABORATORY
 IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

IA CERTIFICATE

Date Issued: **13 Sep 2018**
 *Expiry date: **13 Sep 2021**
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Issue: 1

Ex – Type Examination Certificate

Certificate Number: **S-XPL/13.1331 X**
 Equipment: **Plastic terminal box**
 Model / Type: **ELAK-Ex-R**
 Applicant: **Eltherm Production GmbH**
Ernst-Heinkel-Strasse 6-10
57299 Burbach
Germany
 Manufacturer: **eltherm Elektrowärmetechnik GmbH**
 Serial No: All serial numbers imported between issued- and expire date and all serial numbers covered by a valid report or acceptable product certification mark.

Supplied by
Eltherm Production GmbH
 Identified by Inspection Authority number
S-XPL/13.1331 X

And as described in the Explolabs file number **XPL/16770/13.1331** is hereby certified "Explosion Protected (Refer to clause 1, for Ex Rating)", having been examined and inspected in accordance with the relevant requirements of South African Standards.

- IEC/SANS 60079-0: 2006** Electrical apparatus for explosive gas Atmospheres Part 0: General requirements
- SANS 60079-7: 2007 Ed 3** Explosive atmospheres Part 7: Equipment protection by increased safety
- IEC 60079-7: 2006 Ed 4** "e"
- IEC/SANS 61241-0: 2006** "Electrical apparatus for use in the presence of combustible dust, Part 0: General requirements"
- SANS 61241-1: 2005 Ed 1** "Electrical apparatus for use in the presence of combustible dust, Part 1:
- IEC 61241-1: 2004 Ed 1** Protection by enclosures 'tD'"

Locations	Gas and Dust: Surface
Zone 1	Gas
Zone 21	Dust
Frequency	Intermittent as could occur under normal operation
Environment	Propane to Hydrogen plus Acetylene
Limiting Temp.	85 °C

This certification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 9(2) of the Occupational Health and Safety Act, provided that the apparatus is used as relevant in accordance with:

- i) SANS 10086 and IEC/SANS 61241-14 requirements as applicable;
- ii) Any conditions mentioned in the above report;
- iii) Any relevant requirements and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act; and
- iv) Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health and Safety.
- v) A revision certificate replaces all previous version of the certificate.
- vi) * - Only covers equipment Imported between the "Issued" and "Expire" dates.
- vii) If and when your QAN (Quality Assurance Notification) Certificate for your equipment manufacturer expires during the valid period of the IA Certification (issued for your equipment) and a new certificate is not submitted the existing IA Certification will then be cancelled. It is thus the client's responsibility to always submit the updated and valid QAN certificate(s) to Explolabs (Pty) Ltd

DOCUMENT No: XPL0213	RELEASE DATE: 29/05/2018	REV : 7
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This report supersedes all previous documents bearing the reference no XPL/16770/15.1331.

1. GENERAL

The marking of the Plastic terminal box shall include the following:
Ex e II T6; Ex tD A21 IP65 T85°C

The terminal box ELAK-Ex-R serves for the preparation of the electrical connection between type-tested heating cables and/or supply cables in gas explosive and dust explosive areas.

Technical data:

Ambient temperature range:	-45°C up to +50°C	for the terminal box
	-40°C up to +50°C	for use of cable entries type R.Stahl 8161/5 and 8161/6

Degree of protection according to EN 60529: IP65

Electrical data:

Rated voltage:	up to 550 V AC
Rated current:	up to 28 A
Admissible wire cross-section:	up to 4 mm ²

Test report

The proof of explosion protection is recorded in detail in the test report IB-08-3-180. The test documents are part of the test report and are listed there.

Summary of the test results:

The Plastic terminal box type ELAK-Ex-R fulfils the requirements of explosion protection for equipment of Group II, Category 2G, in type of protection Increased Safety "e" and Category 2D in type of protection, Protection by enclosure "tD".

Based on the following documentation: IBExU 08 ATEX 1113X

2. INSTALLATION INSTRUCTIONS

It is the manufacturer's responsibility to supply installation instructions with each unit offered for sale as required by IEC/SANS 60079-0 Clause 30.

3. SPECIAL CONDITIONS FOR SAFE USE *(denoted by "X" after certificate number)*

Depending on the used cable entries the fixed ambient temperature range is from -45°C or -40°C (type R. Stahl 8161/5 and 8161/6) to +50°C.

4. SCHEDULE OF LIMITATIONS *(denoted by "U" after certificate number)*

None.

5. CONDITIONS OF CERTIFICATION

All production units must be covered by a QAN (Quality Assurance Notification), Product Mark Scheme or batch evaluation.

6.

MARKING

The following (or similar) information have to be clearly and permanently marked on all units:

Supplier : Eltherm Production GmbH
Manufacturer : eltherm Elektrowärmetechnik GmbH
Equipment : Plastic terminal box
Model/Type : ELAK-Ex-R
Serial No. : ---
Ex Rating : Ex e II T6; Ex tD A21 IP65 T85°C
IA Certificate No : S-XPL/13.1331 X

Responsible Testing Officer:

P van Staden
Testing Officer

EXPLOLABS EXPLOSION PREVENTION SERVICES

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