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GOVERNMENT APPROVED TEST LABORATORY

IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

IA CERTIFICATE (IMPORT)

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Date Issued: **20 Feb 2026** Certificate Validity: **20 Feb 2029**

IA Certificate Validity: In accordance with ARP 0108 and the National Code of Practice, import IA certificates has a validity period of three (3) years from the date of issue. The IA certificate's validity period depends on the validity of the international document that it is based upon, and it is invalidated should the international certificate be cancelled or the product quality assurance or notification becomes invalid. Equipment imported under a valid IA certificate and handed over to the end user, the IA Certificate validity falls away and the Ex equipment remains compliant with the relevant standards for its lifetime, provided the equipment is maintained in its original certified configuration. No modifications are allowed. Imported apparatus not sold by the IA certificate expiry date is deemed to not be covered by this IA Certificate and this IA Certificate shall undergo a renewal process. Renewal of this IA certificate is the responsibility of the IA Certificate Holder. The IA Certificate Holder must provide and maintain records to the end-user, of date of sale for traceability purposes.

Certificate Number: **MS-XPL/20.0438 X** Issue Number: **2**
 Equipment: **Signal conditioning instruments**
 Model / Type: **VEGATOR 131 type TOR131.**S/X**** and VEGATOR 132 type TOR132.*******
 IA Certificate Holder: **VEGA Grieshaber KG**
 IA Certificate Holder Location: **Am Hohenstein 113, 77761 Schiltach, Germany**
 Manufacturer: **VEGA Grieshaber KG**
 Manufacturer Location: **VEGA Grieshaber KG Am Hohenstein 113 77761 Schiltach Germany** **VEGA Americas 4241 Allendorf Drive Cincinnati, Ohio 45209 United States of America**
 Serial No: All serial numbers, imported between issued- and validity date and all serial numbers covered by either valid QAN or QAR.

Identified by Inspection Authority Number
MS-XPL/20.0438 X

And as described in the Explolabs file number **XPL/21357/20.0438 Issue 2** is hereby certified "Explosion Protected (Refer to clause 1, for Ex Rating)", having been examined and inspected in accordance with the relevant requirements of the South African National Standards.

- SANS 60079-0: 2019 Ed 6** Explosive atmospheres Part 0: Equipment — General requirements
- IEC 60079-0: 2017 Ed 7**
- SANS 60079-11: 2012 Ed 4** Explosive atmospheres Part 11: Equipment protection by intrinsic safety "i"
- IEC 60079-11: 2011 Ed 6**
- SANS 60079-15: 2022 Ed 5** Explosive atmospheres Part 15: Equipment protection by type of protection "n"
- IEC 60079-15: 2017 Ed 5**
- SANS 60079-7:2023 Ed 4.1** Explosive atmospheres Part 7: Equipment protection by increased safety "e"
- IEC 60079-7:2017 Ed 5.1**

This certificate supersedes all previous documents bearing the reference no XPL/21357/20.0438 Issue 1.

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Risk of ignition provided:

Protection afforded	Equipment Protection Level (EPL)	Performance of protection	Conditions of operation	T class or Max Surface Temp (°C)
	Group			
Very high	[Ma] Group I	Two independent means of protection or safe even when two faults occur independently of each other	Equipment remains functioning when explosive atmosphere present	T150°C
Very high	[Ga] Group II		Equipment remains functioning in zones 0, 1 and 2	None
Very high	[Da] Group III		Equipment remains functioning in zones 20, 21 and 22	
Enhanced	Gc Group II	Suitable for normal operation	Equipment remains functioning in zone 2	T4 (135°C)

1. GENERAL

The marking of the Signal conditioning instruments shall include the following:

Ex ec nC [ia Ga] IIC T4 Gc

Ex ec nC [ia IIIC Da] IIC T4 Gc

Ex ec nC [ia I Ma] IIC T4 Gc

[Ex ia Ma] I

[Ex ia Ga] IIC

[Ex ia Da] IIIC

EQUIPMENT

Equipment and systems covered by this Certificate are as follows:

General product information:**Description:**

The signal conditioning instruments VEGATOR 131 type TOR131.**S/X*** and VEGATOR 132 type TOR132.***** are used for the supply of passive, intrinsically safe conductive sensors of type EL e.g for level point detection and pump control and for the safe galvanic separation of the intrinsically safe circuits from all non-intrinsically safe circuits.

Type code and Marking

Ex ec nC [ia Ga] IIC T4 Gc

Ex ec nC [ia IIIC Da] IIC T4 Gc

Ex ec nC [ia I Ma] IIC T4 Gc

VEGATOR 131 type TOR131.**S/X***

VEGATOR 132 type TOR132.*****

[Ex ia Ma] I

[Ex ia Ga] IIC

[Ex ia Da] IIIC

Electrical data

Supply

(Terminals 16/17)

For connection to non-intrinsically safe circuits with the following maximum values:

$U = 24 \dots 230 \text{ V a.c. } (-15 \dots +10\%)$

$U = 24 \dots 65 \text{ V d.c. } (-15 \dots +10\%)$

$U_m = 253 \text{ V a.c.}$

Relay outputs

(Terminals

Relay 1: 10/11/12

Relay 2: 13/14/15)

For connection to non-intrinsically safe circuits with the following maximum values:

$U_n = 253 \text{ V a.c. ; } I_n = 3 \text{ A}$

$U_n = 50 \text{ V d.c. ; } I_n = 1 \text{ A}$

Signal circuits

(Terminals 1/2/3, 4/5)

In type of protection intrinsic safety Ex ia I/IIIC/IB(IIIC) with following maximum values per circuit:

$U_o = 12.6 \text{ V}$

$I_o = 7.7 \text{ mA}$

$P_o = 24.3 \text{ mW}$

Characteristic line: linear

Effective internal capacitance C_i

Negligibly small

Effective internal inductance L_i

Negligibly small

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The maximum permissible values for the external inductance L_o and the external capacitance C_o can be taken from the following tables:

Ex ia I	L_o [mH]	100	20	10	0.5	0.2
	C_o [μ F]	9.1	12	13	27	29

Ex ia IIC	L_o [mH]	100	50	10	0.5	0.05
	C_o [μ F]	0.38	0.42	0.52	0.91	1.15

Ex ia IIB (IIIC)	L_o [mH]	100	50	10	2	0.2
	C_o [μ F]	2.5	2.7	3.5	4.7	7.4

The intrinsically safe signal circuit is safe galvanically separated from the non-intrinsically safe circuits up to a peak value of the voltage of 375 V.

Thermal data

Permissible ambient temperature range: $-20\text{ }^{\circ}\text{C} < T_a < +60\text{ }^{\circ}\text{C}$.

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Proof of conformity of the signal conditioning instruments VEGATOR 131 type TOR131.**S/X**** VEGATOR 132 type TOR132.***** to the current versions of the standards IEC/SANS 60079-0:2017/COR1:2020, IEC/SANS 60079-7:2017, IEC/SANS 60079-11:2011/COR1:2012 and IEC/SANS 60079-15:2017

The marking of the devices is extended to cover:

Ex ec nC [ia Ga] IIC T4 Gc
Ex ec nC [ia IIC Da] IIC T4 Gc
Ex ec nC [ia I Ma] IIC T4 Gc

Actuating the buttons behind the cover plate cannot increase the maximum intrinsically safe output current and the internal effective reactances, therefore the ignition protection type intrinsic safety is not affected. The "ic" circuit can therefore be omitted from the marking.

Based on the following documentation:

IECEx TUN 16.0021X Issue No. 1 and/or TÜV 16 ATEX 179411 X

2. INSTALLATION INSTRUCTIONS

It is the IA Certificate Holder's responsibility to supply OEM installation instructions with each unit offered for sale as required by IEC/SANS 60079-0, clause 30.

The equipment shall be installed, operated, and maintained in accordance with the manufacturer's instructions and the applicable South African standards and regulations.

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

- i. For EPL Gc applications the signal conditioning instruments VEGATOR 131 type TOR131.**S/X**** and VEGATOR 132 type TOR132.***** have to be installed in a suitable enclosure according to IEC 60079-7 resp. IEC 60079-15 in such a way that a degree of protection of at least IP54 is achieved.
- ii. For EPL Gc applications the signal conditioning instruments VEGATOR 131 type TOR131.**S/X**** and VEGATOR 132 type TOR132.***** have to be erected in such a way that a pollution degree 2 or less, according to IEC 60664-1, is achieved.
- iii. For EPL Gc applications measures have to be taken, external to the signal conditioning instruments VEGATOR 131 type TOR131.**S/X**** and VEGATOR 132 type TOR132.***** to provide a transient protection that ensures that the rated voltage, connected to the power supply terminals, is not exceeded by more than 40 %.
- iv. The connecting and disconnecting of non-intrinsically safe circuits is only permitted in the absence of a potentially explosive atmosphere.

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

Not applicable.

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5. CONDITIONS OF CERTIFICATION

This approval is granted based on the submitted documentation.
Any modifications or alterations to the equipment will invalidate this IA Certificate.

The Certificate Holder is responsible for maintaining accurate records of the equipment and this IA Certificate.

All production units must be covered by either a QAN (Quality Assurance Notification) or QAR (Quality Assurance Report).

Renewal: This IA certificate may be renewed under a valid Quality Assurance Notification (QAN) or Quality Assurance Report (QAR). Imported apparatus not sold by the IA certificate expiry date must undergo this renewal process. This condition remains the responsibility of the IA Certificate Holder. Renewal of this IA certificate is the responsibility of the IA Certificate Holder.

Renewal involves a document review, including:

- Verification of the latest ATEX/IECEx certificate.
- Confirmation of a valid QAN/QAR.

Certificate holders are responsible for submitting these documents.

6. MARKING

The equipment shall bear the manufacturer's original marking plate containing all relevant Ex-certification details (applicable under the ATEX Directive). The following (or similar) information shall be clearly and permanently marked on all units:

IA Certificate Holder : VEGA Grieshaber KG
 Ex Rating : Ex ec nC [ia Ga] IIC T4 Gc
 Ex ec nC [ia IIIC Da] IIC T4 Gc
 Ex ec nC [ia I Ma] IIC T4 Gc
 [Ex ia Ma] I
 [Ex ia Ga] IIC
 [Ex ia Da] IIIC
 IA Certificate No : MS-XPL/20.0438 X

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:

- SANS 10086 and IEC/SANS 61241-14 requirements as applicable;
 - Any conditions mentioned in the above report;
 - Any relevant requirements and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act; and
 - Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health and Safety.
- A revision certificate replaces all previous versions of the certificate.

* - Only covers equipment imported between the "Issued" and "Expire" dates.

If and when your QAN (Quality Assurance Notification) or QAR (Quality Assurance Report) 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 Certificate Holder's responsibility to always submit the updated and valid QAN/QAR certificate(s) to Explolabs (Pty) Ltd

Reviewed by:



CC Lourens

Technical Specialist

EXPLOLABS EXPLOSION PREVENTION SERVICES

This report/certificate shall not be reproduced except in full without the written approval of the company Explolabs (Pty) Ltd shall not be liable for any losses or damages sustained on account of any failure or omission to properly perform our duties in terms of any contract undertaken by us. This disclaimer is immutable and automatically incorporated in any contract undertaken by us; notwithstanding anything to the contrary, save for the express written waiver of our managing director. By marking the equipment in accordance with the documentation/standard, the manufacturer attests on his own responsibility that the equipment has been constructed in accordance with the applicable requirements of the relevant standards and that the routine verifications and tests have been successfully completed and that the product complies with the documentation and standard(s). The contents of electronic reports/certificates cannot be guaranteed. Original certification documents will be kept on file at Explolabs (Pty) Ltd.

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