

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

**IA CERTIFICATE**

Date Issued: **20 Sep 2022**  
\*Expiry date: **20 Sep 2025**  
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**Issue: 1**

**Ex – Type Examination Certificate**

Certificate Number: **S-XPL/19.0336 X**  
Equipment: **Display and Adjustment Unit VEGADIS 82**  
Model / Type: **DIS82(\*)..\*\*X\*\*\*\*\* and DIS82(\*)..\*\*H\*\*\*\*\***  
Applicant: **VEGA Controls SA (Pty) Ltd**  
**PO Box 691**  
**Wilgeheuwel**  
**1736**

Manufacturer: **VEGA Grieshaber KG**  
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  
**VEGA Controls SA (Pty) Ltd**  
Identified by Inspection Authority number  
**S-XPL/19.0336 X**

And as described in the Explolabs file number **XPL/20361/19.0336 Issue 1** 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.

- 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 ""
- IEC 60079-11: 2011 Ed 6**

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	Ga Group II	Two independent means of protection or safe even when two faults occur independently of each other	Equipment remains functioning in zones 0, 1 and 2	T6 (85°C) ... T1 (450°C)
High	Gb Group II	Suitable for normal operation and frequently occurring disturbances or equipment where faults are normally taken into account	Equipment remains functioning in zones 1 and 2	

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;
- v) 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

This certificate supersedes all previous documents bearing the reference no XPL/20361/19.0336.

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**1. GENERAL**

The marking of the Display and Adjustment Unit VEGADIS 82 shall include the following:

**Ex ia IIC T6...T1 Ga**

**Ex ia IIC T6...T1 Gb**

**Description**

VEGADSI 82, type DIS82(\*)\*\*X\*\*\*\*\*, is used for separate scaling, parameter adjustment and visualization of measured values in conjunction with 4...20 mA, interface sensors.

VEGADIS 82, type DIS82(\*)\*\*H\*\*\*\*\*, is for in conjunction with 4...20 mA + HART interfaced sensors.

The VEGADIS 82 is looped into the intrinsically safe 4...20 mA, or 4...20 mA + HART, circuit of the sensor.

Optionally, the VEGADIS 82 can be provided with the display and adjustment module called "PLICSCOM".

The user can readily replace the PLICSCOM with

- An alternative display and adjustment module that is specified by VEGA.
- For service purposes, the interface adapter VEGACONNECT4 (PTB 07 ATEX 2013X / S-XPL/08796 X), for communication with a computer via USB, which is only allowed when the area is known to be non hazardous.

The enclosure of the VEGADIS 82 can be made of plastic, aluminum or stainless steel, and has a cover with or without a plastic window.

Or the VEGADIS 82 has a plastic enclosure, with a transparent cover, for panel mounting.

**Thermal data**

Minimum ambient temperature is -40°C.

The relation between temperature class and maximum ambient temperature is as listed in the following table:

	T6	T5	T4...T1
Type DIS82(*)**X*****	45 °C	60 °C	60 °C
Type DIS82(*)**H*****	42 °C	57 °C	60 °C

For more information regarding Electrical data and Type designation see Annex 1 to NL/DEK/EXTR14.0060/05.

Based on the following documentation: DEKRA 14 ATEX 0098 X Issue Number 6

**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.

The instructions provided with the product shall be followed in detail to assure safe operation.

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

If the enclosure of the VEGADIS 82 is made of aluminum (Type DIS82(\*)\*\*\*A\*\*\*\*\*) and if it is mounted in an area where the use of EPL Ga equipment is required, it must be installed such, that even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.

Except for VEGADIS 82 type DIS82(\*)\*\*\*V\*\*X\*\*, which is made of unpainted metal and without window, on all Display and adjustment Units type DIS82(\*)\*\*\*\*\*, electrostatic charges shall be avoided.

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

Not applicable.

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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 : VEGA Controls SA (Pty) Ltd
- Manufacturer : VEGA Grieshaber KG
- Equipment : Display and Adjustment Unit VEGADIS 82
- Model/Type : DIS82(\*).\*\*X\*\*\*\*\* and DIS82(\*).\*\*H\*\*\*\*\*
- Serial No. : ---
- Ex Rating : Ex ia IIC T6...T1 Ga and Ex ia IIC T6...T1 Gb
- IA Certificate No : S-XPL/19.0336 X

Responsible Testing Officer:



L Odendaal  
Technical Specialist

**EXPLOLABS EXPLOSION PREVENTION SERVICES**

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