



(Pty) Ltd

7 Spanner Rd / PO Box 467
Olifantsfontein
1665
Tel: +27 (11) 316 4601
Fax: +27 (11) 316 5670
E-mail: admin-mgr@explolabs.co.za

Req No: 1999/02771/07

GOVERNMENT APPROVED TEST LABORATORY

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

IA CERTIFICATE

Date Issued: **23 Jan 2025**
*Expiry date: **23 Jan 2028**
Page 1 of 4
Issue: 4

Ex – Type Examination Certificate

Certificate Number: **S-XPL/13.1059**
Equipment: **Adjustment and indication unit VEGADIS 81**
Model / Type: **DIS81(*).*E***
Applicant: **VEGA Grieshaber KG**
Am Hohenstein 113
77761 Schiltach
Germany
Manufacturer: **VEGA Grieshaber KG**
Manufacturing location: **Am Hohnstein 113**
77761 Schiltach
Germany
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 Grieshaber KG
Identified by Inspection Authority Number
S-XPL/13.1059

And as described in the Explolabs file number **XPL/14505/13.1059** 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 60079-1: 2015 Ed 5** Explosive atmospheres Part 1: Equipment protection by flameproof enclosures "d"
- IEC 60079-1: 2014 Ed 7**

Risk of ignition provided:

Protection afforded	Equipment Protection Level (EPL)	Performance of protection	Conditions of operation	T class or Max Surface Temp (°C)
	Group			
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	T6 (85°C)

This certificate supersedes all previous documents bearing the reference no XPL/14505/13.1059 Issue 3.

DOCUMENT No: XPL0213	RELEASE DATE: 30/01/2024	REV: 8
This document is an Explolabs Controlled Document – Responsibility falls on personnel to ensure correct revision is applied as noted in the electronic system.		



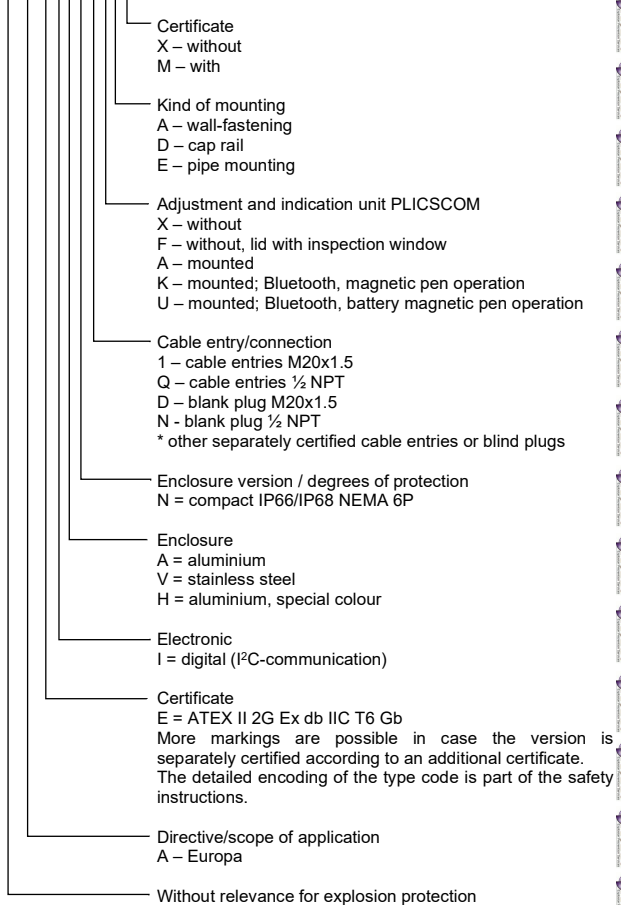
1. GENERAL

The marking of the Adjustment and indication unit VEGADIS 81 shall include the following:
Ex db IIC T6 Gb

Product description
Subject and type

Adjustment and indication unit VEGADIS 81

Type DIS81(*)A E * * * * *



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Description

The Adjustment and indication unit with integrated adjustment and indicating module PLICSCOM, is used for separated operation and visualization of measurement data in connection with a radar sensor VEGAPULS***, a microwave sensor VEGAFLEX***, an ultrasonic sensor VEGASON***, a pressure sensor VEGABAR***, VEGADIF***, a capacitive sensor VEGACAL*** or radiometry sensor of the PROTRAC series, products of company VEGA.

The communication between Adjustment and indication unit and sensor takes place via BUS-signal. The Adjustment and indication unit consists of a metallic one-chamber enclosure in type of protection Flameproof Enclosure (KIWA 17 ATEX 0032 U (17040212)) with built in electronic insert DIS81.

Reasons for supplement

- Update of the IEC 60079-0 to the current version.
- Use of a different, separately certified enclosure (KIWA 17 ATEX 0032 U (17040212))

Parameters

Electrical data

BUS supply and signal circuits (terminals 5, 6, 7, 8)

$U \leq 6.4 \text{ V}$

$P \leq 500 \text{ mW}$

For connection to a radar sensor VEGAPULS***, microwave sensor VEGAFLEX***, ultrasonic sensor VEGASON***, pressure sensor VEGABAR***, VEGADIF***, a capacitive sensor VEGACAL*** or radiometry sensor of the PROTRAC series, products of company VEGA and certified in type of protection Flameproof Enclosure "d".

Thermal data

Permitted ambient temperature range

$-50^{\circ}\text{C} \dots +60^{\circ}\text{C}$

Temperature class

T6

Report Number

BVS PP 13.2110 EU, as of 2022-04-22

Based on the following documentation: BVS 13 ATEX E 054

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)

None.

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

Not applicable.

5. CONDITIONS OF CERTIFICATION

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

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6. MARKING

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

Supplier : VEGA Grieshaber KG
 Manufacturer : VEGA Grieshaber KG
 Equipment : Adjustment and indication unit VEGADIS 81
 Model/Type : DIS81(*) *E*
 Serial No. : ---
 Ex Rating : Ex db IIC T6 Gb
 IA Certificate No : S-XPL/13.1059

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

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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