



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx PRE 15.0064X Issue No: 0 Certificate history:
Status: **Current** Page 1 of 4 [Issue No. 0 \(2015-12-18\)](#)

Date of Issue: **2015-12-18**

Applicant: **NEO Monitors AS**
Prost Stabels vei 22
2019 Skedsmokorset
Norway

Electrical Apparatus: **Gas detector/Monitor**
Optional accessory: *Lasergas II SP Monitor & SP compact monitor*

Type of Protection: **Ex p, pD**

Marking:
Ex px [op is Ga] IIC T5 Gb, -20°C≤Ta≤+55°C
Ex pD [op is Ga] 21 IP66 T100°C, -20°C≤Ta≤+55°C

Description	Option 1	Option 2
Volume of enclosure	12 Litre	12 Litre
Minimum purge flow	11 l/min	48 l/min
Minimum purging time	3m 40 sec	1 min 15 sec
Minimum Overpressure	0.8mbar	4mbar
Maximum Overpressure	20 mbar	20mbar
Maximum leakage rate	2 l/min	2 l/min

Approved for issue on behalf of the IECEx
Certification Body:

Bjørn Spongsveen

Position:

Certification Manager

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).



IECEX Certificate of Conformity

Certificate No: IECEx PRE 15.0064X

Issue No: 0

Date of Issue: 2015-12-18

Page 2 of 4

Certificate issued by:

DNV Nemko Presafe AS
Gautadalleen 30
P.O.Box 73 Blindern
0314 Oslo
Norway





IECEx Certificate of Conformity

Certificate No: IECEx PRE 15.0064X Issue No: 0
Date of Issue: 2015-12-18 Page 3 of 4
Manufacturer: **NEO Monitors AS**
Prost Stabels vei 22
2019 Skedsmokorset
Norway

Additional Manufacturing
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-2 : 2007-02 Edition:5	Explosive Atmospheres - Part 2 Equipment protection by pressurized enclosure "p"
IEC 60079-28 : 2006-08 Edition:1	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 61241-4 : 2001 Edition:1	Electrical apparatus for use in the presence of combustible dust - Part 4: Type of protection 'pD'

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[NO/PRE/ExTR14.0013/00](#) [NO/PRE/ExTR15.0057/00](#)

Quality Assessment Report:

[NO/DNV/QAR12.0012/01](#)



IECEx Certificate of Conformity

Certificate No: IECEx PRE 15.0064X

Issue No: 0

Date of Issue: 2015-12-18

Page 4 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The LaserGas II SP Monitor is an optical instrument based on transmitting infrared laser light from a transmitter unit on one side of the stack to a receiver unit in the diametrically opposite side of the stack. The measurement principle is called infrared single-line absorption spectroscopy. The instrument uses Class I laser for the operational purpose. The protective gas is air, alternatively nitrogen is used.

Electrical Data :18-36 VDC

CONDITIONS OF CERTIFICATION: YES as shown below:

- Safety control system are not part of the assessment. Ex certified safety control system complying relevant safety integrity level shall be used.
- The monitoring device of the pressurization, consisting at least of the control, the pressure resp. flow monitoring and the protective gas distribution, has to be tested with regard to the function of the monitoring device according to the requirements of the Clause 7 of the IEC60079-2 concerning the function of the monitoring device.
- The monitoring device of the pressurization has to be set at least with due observation of the data fixed in the certificate for the disconnection of the LaserGas Monitor or connection of a warning signal in case of the fixed minimum excess pressure for the protective gas has fallen below, - examination of the leakage loss rate, - the minimum volumetric flow of protective gas during purging.
- If not already embodied into the pressurization control system, a safety device limiting the pressure to the specified maximum overpressure of the equipment must be mounted.
- The equipment contains a 3V lithium cell. Do not open equipment when an explosive atmosphere may be present