



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 15.0071X

Issue No: 1

Certificate history:

Issue No. 1 (2018-02-28)

Issue No. 0 (2015-12-21)

Status: **Current**

Page 1 of 4

Date of Issue: **2018-02-28**

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

Equipment: **Gas detectors**

Optional accessory:

Type of Protection: **ic,op is, nA,nC, tc**

Marking:

*SP, SP compact OP:
Ex nA nC [op is Ga] IIC T4/T5 Gc, $-20^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$

SP, SP compact OP:
Ex tc [op is Da] IIIC T100°C Dc, $-20^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$

MP:
Ex ic nA nC [op is Ga] IIC T4 Gc, $-20^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$

Also refer description

*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](http://www.iecex.com).

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 15.0071X

Issue No: 1

Date of Issue: **2018-02-28**

Page 2 of 4

Manufacturer: **Neo Monitors**
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 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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/ExTR15.0068/00](#)

[NO/PRE/ExTR15.0068/01](#)

[NO/PRE/ExTR15.0068/02](#)

Quality Assessment Report:

[NO/PRE/QAR16.0002/00](#)



IECEX Certificate of Conformity

Certificate No: IECEX PRE 15.0071X

Issue No: 1

Date of Issue: 2018-02-28

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

SP:

The LaserGas 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.

OP:

The LaserGas II OP Monitor is also an optical instrument based on transmitting infrared laser light similar to SP but transmitter and receiver housed in a single enclosure (transreceiver).

MP: LaserGas II MP is similar to OP, but different enclosure.

Additional information related to marking:

*Marking for LaserGas II SP compact with Laser type 1 as specified in the descriptive documents Ex nA nC [op is Ga] IIC T4 Gc, $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

*Marking Laser Gas II with laser type 2 as specified in the descriptive documents.
Ex nA nC [op is Ga] IIC T4 Gc, $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

Type designation

Laser Gas II SP, Laser Gas II SP compact, Laser Gas II OP, Laser Gas II MP

Electrical Data

U=18 to 36VDC , 20W

Degrees of protection (IP Code) :

For Laser Gas II SP & OPIP66 , according EN 60079-0

For Laser Gas II MP, IP IP64, according EN 60079-0

SPECIFIC CONDITIONS OF USE: YES as shown below:

Potential risk of electrostatic discharge. See instructions for guidance to minimize risk of electrostatic discharge.



IECEX Certificate of Conformity

Certificate No: IECEX PRE 15.0071X

Issue No: 1

Date of Issue: **2018-02-28**

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

00- Initial Issue

01- Document update and assessment for new type of diodes & Inclusion of MP model.