



DET NORSKE VERITAS

EC-TYPE EXAMINATION CERTIFICATE

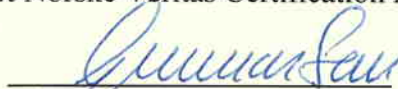
- [2] **EQUIPMENT OR PROTECTED SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC**
- [3] EC-Type Examination Certificate Number: **DNV 09 ATEX 57893**
- [4] Equipment or Protective System: **Lasergas II SP, OP and MP Monitors**
- [5] Applicant – Manufacturer or Authorized representative: **Norsk Elektro Optikk AS**
[6] Address: **Solheimveien 62a, 1471 Lørenskog, Norway**
- [5] Applicant – Manufacturer or Authorized representative: **NEO Monitors AS**
[6] Address: **Solheimveien 62a, 1471 Lørenskog, Norway**
- [7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV, notified body number 0575 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. : **2009-3376**

- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0: 2006 and EN 60079-28: 2007
- [10] If the sign “X” is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- [11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protected system. If applicable, further requirements of this Directive apply to the manufacturer and supply of this equipment or protective system.
- [12] The marking of the equipment or protective system shall include the following:

 **II (2) G [Ex op is T4 Gb] IIC**

Høvik, 2009-07-17
for Det Norske Veritas Certification AS


Marianne Spæren
Certification Manager




Bjørn Spongsveen
Technical Reviewer

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300.000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE No.:** DNV 09 ATEX 57893

Certificate History

Revision	Description	Issue date
-	Original certificate	2009-07-17

[15] **Description of Equipment or Protective System**

The LaserGas-II Monitor is an optical instrument based on transmitting infrared laser light from a transmitter to a solid-state detector inside the receiver. The measurement principle is called infrared single-line absorption spectroscopy.

The LaserGas II Monitor is available in different versions configured for different applications namely: Single Path (SP), Single Path compact, Multipass (MP), Multipass cabinet and Open Path (OP). The different versions are all based on the same electronics.

The unit itself are certified as category 2 or 3 equipment under other certificates.
This certificate allows the Laser to beam into zone 1 area [Gb] for measuring purpose.

Type Identification

LaserGas II SP Monitors (Single Path)
LaserGas II SP compact Monitors
LaserGas II OP Monitors (Open Path)
LaserGas II MP cabinet Monitors

Electrical Data
18-36VDC, 20W



[16] **Report No.:** 2009-3376
Project No.: PRJC-29692-2007-PRC-NOR

[17] **Special Conditions for Safe Use**
None

[18] **Essential Health and Safety Requirements**
See part 9 of this certificate

END OF CERTIFICATE

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300,000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.