



# Certificate of Compliance

**Certificate:** 2677299

**Master Contract:** 232180

**Project:** 70138196

**Date Issued:** May 29, 2018

**Issued to:** Neo Monitors AS  
Prost Stabels vei 22  
Skedsmokorset, 2019  
NORWAY

**Attention:** Lars Broendbo

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and US Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only*



**Issued by:**

James Jarman

## **PRODUCTS**

**CLASS 2258 02 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations**

**Class I; Division 1 & 2; Groups B, C, D**

LaserGas III - Rated 18 - 32Vdc, 10W max, Class 2 Supply; Ta = -40°C to +60°C; T4; IP65

LaserGas III OP – Rated 18 - 32Vdc, 10W max, Class 2 Supply; Ta = -40°C to +60°C; T4; IP65

**CLASS 2258 82 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations - Certified to US Standards**

**Class I; Division 1 & 2; Groups B, C, D**

LaserGas III - Rated 18 - 32Vdc, 10W max, Class 2 Supply; Ta = -40°C to +60°C; T4; IP65

## **Notes:**

- 1) Sealing requirements for Division 1 & 2 Hazardous location installations, Electrical connections to each unit shall be via factory installed epoxy filled certified Class I Division 1 Group BCD devices, such as conduit seal or cable gland and shall be installed directly at the boundary to the equipment. The wiring



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- method associated with these devices shall be in accordance with the CEC and the NEC for the area of classification, correctly rated electrically, the temperature rating of the wiring insulation shall exceed +75°C, and the wiring method shall meet or exceed the marked Tamb of the instrument.
- 2) The fasteners used on the explosion-proof enclosure must be the type specified by the manufacturer: M6x16 DIN912 A4-80 with a 1mm thread pitch.
  - 3) Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer.
  - 4) Inside explosion-proof enclosure for transmitter and receiver there is an optical instrument providing Ex [op is] beam into Zone 1 (See IECEx Report # NO/DNV/ExTR10.0004/00 which references the laser certificate DNV 09 ATEX 57893) or an optical instrument providing Ex [op is] beam into Zone 0 (See IECEx Certificate IECEx PRE 15.0043X which references the Laser Certificate DNV 12 ATEX 14659 and is covered under IECEx report # NO/PRE/ExTR14.0013/00).
  - 5) Enclosures are fitted with a glass lens in the lid. For the LaserGas III the lens options available are Thick Lens and Tox-Lens. The Tox-Lens is permanently secured using a UL certified epoxy 3M DP190 Gray. The LaserGas III OP lens is permanently secured using a UL certified epoxy, 3M DP190 Gray.
  - 6) Mounting according to manufacturer's instructions must be followed to ensure proper protection of lens.
  - 7) The unit is powered with a Class 2 power supply.
  - 8) When fitted in the optional M20x1.5 enclosure entry, the CMP Products 781D breather drain shall be permanently attached to the enclosure using UL certified epoxy 3M DP190 Gray, in order to comply with the requirements of UL1203, 5<sup>th</sup> Edition, Clause 13.1.c).
  - 9) Suitably certified blanking plugs shall be provided for any unused conduit entries to maintain the explosionproof integrity of the equipment.

**APPLICABLE REQUIREMENTS**

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| CSA Standard C22.2 No 0-10 (R2015)         | General Requirements - Canadian Electrical Code, Part II   |
| CSA Standard C22.2 No 142-M1987 (R2014)    | Process Control Equipment  |
| CSA Standard C22.2 No 30-M1986 (R2016)     | Explosion-Proof Enclosures for Use in Class Hazardous Locations  |
| ANSI/UL Standard 508, 17 <sup>th</sup> Ed. | Electric Industrial Control Equipment  |
| ANSI/UL Standard 1203, 5 <sup>th</sup> Ed. | Explosion-Proof and Dust-Ignition-Proof Electrical Equipment For Use in Hazardous (Classified) Locations |
| CAN/CSA-C22.2 No. 60529:05                 | Degrees of protection provided by enclosures (IP Code)   |
| ANSI/IEC 60529-2004 (R2011)                | Degrees of Protection Provided by Enclosures (IP Code)   |



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## **MARKINGS**

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where

The following markings appear on a laser-engraved stainless steel plate, spot-welded or riveted to the housing:

- LaserGas III - The product listed is eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only, as shown on the Certificate of Compliance.
- LaserGas III OP - The product listed is eligible to bear the CSA Mark shown without adjacent indicators for use in Canada only, as shown on the Certificate of Compliance.
- Manufacturer's name: "Neo Monitors AS", or CSA Master Contract Number "232180", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model number: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- The following wording: "Class 2 Supply"
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date in MMY format, or serial number, traceable to year and month of manufacture.
- Enclosure ratings: As specified in the PRODUCTS section, above.
- Hazardous Location designation: As specified in the PRODUCTS section, above.
- Temperature code: As specified in the PRODUCTS section, above.
- The following words, or suitable equivalent:
  - "WARNING: DO NOT OPEN WHEN AN EXPLOSION ATMOSPHERE MAY BE PRESENT" and "AVERTISSEMENT: NE PAS OUVRIR SI UNE ATMOSPHERE D'EXPLOSION PEUT ETRE PRESENTE"
  - "WARNING: DO NOT OPEN WHEN ENERGIZED" and "AVERTISSEMENT: NE PAS OUVRIR SOUS TENSION"
  - "FACTORY SEALED"
- Specification of field wiring entries "M20"

An Operational/ Installation manual shall be supplied with each unit, containing the following minimum marking information:

- Manufacturers name and address
- Model number: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Hazardous Location designation: As specified in the PRODUCTS section, above.
- Temperature code: As specified in the PRODUCTS section, above.
- Specification for appropriate wiring, including definition of connections and specification for wire gauge.



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- Mounting, installation and maintenance instructions.
- The following words, or suitable equivalent:
  - “WARNING: DO NOT OPEN WHEN AN EXPLOSION ATMOSPHERE MAY BE PRESENT” and “AVERTISSEMENT: NE PAS OUVRIR SI UNE ATMOSPHERE D'EXPLOSION PEUT ETRE PRESENTE”
  - “WARNING: DO NOT OPEN WHEN ENERGIZED” and “AVERTISSEMENT: NE PAS OUVRIR SOUS TENSION”
  - The unit must be powered by a Class 2 power supply.
- Specification of field wiring entries “M20”