

HydroDOS NEON® Gas Warning System Light and Horn Package



| ITEM | RATING |
|--|---|
| Chlorine Dioxide gas measuring range | 0 - 1.00ppm |
| Chlorine gas measuring range | 0 - 10.00 ppm |
| Ozone gas measuring range | 0 - 1.00ppm |
| Display | 2 x measured value |
| Operation | Touch screen |
| Measurement | 2 selectable inputs for gas sensors: Chlorine, Chlorine dioxide and / or Ozone display in ppm |
| Contact rating | 3 relays, potential-free N/O contacts, max. 250V, 6A, 550VA (1 already used for the light, 2 spare) |
| Power Supply | 85.. 250V AC, +6/-10%, 40..60Hz Option: 24V DC |
| Power Consumption | 10 VA |
| Operation Temperature | 0 – 50°C |
| Optional Extra software add-ons and hardware modules | Up to two analogue outputs, A datalog function that stores data on SD card, Modbus RTU interface. |
| Replaceable sensors | Mounting brackets and long sensor cable to facilitate sensor positioning. To be replaced every 12 months; available from Hydrotec. |

Chlorine Dioxide Gas Monitor and Alarm System with Light and Horn Panel

The NEON® gas alarm is responsible for monitoring of the level of chlorine dioxide gas in the atmosphere near the chemical storage or chlorine dioxide generation and dosing equipment.

NEON® gas alarm offers high quality and long-term reliability. With its modular design, the Neon® gas warning instrument can be tailored to your site specific application as required.

Key Features

- Touch screen – can be operated even with gloves and does not respond to mere splashes of water
- Alarm relays for BMS connections
- Possibility of simultaneous monitoring of two different gases, or two sensors
- Saves energy with the Eco mode; the display backlight is deactivated after an adjustable time interval
- Pre-mounted with a warning light and horn on a panel easy for installation

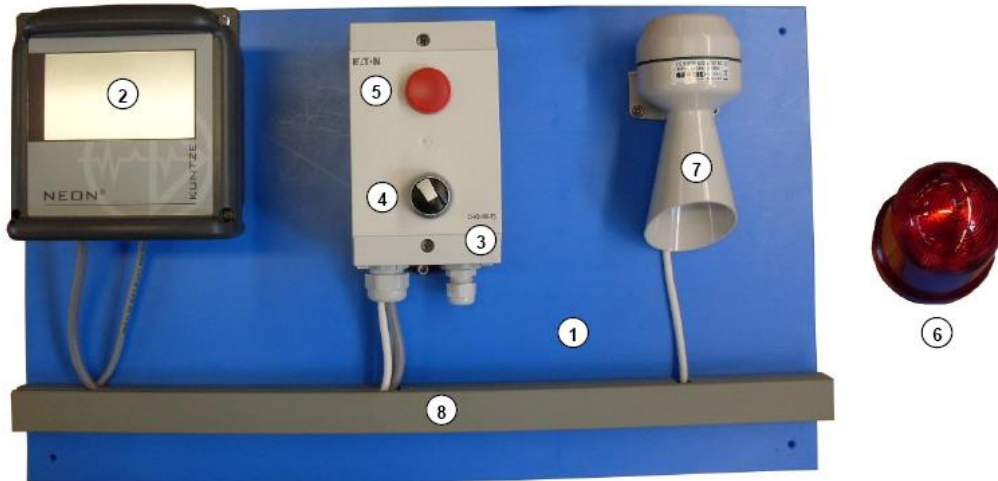
Optional extras:

- storage and loading of the instrument settings with SD card slot at the back of the housing.
- Additional beacon light for an external plantroom door installation.

Bacterial Control

NEON® GAS Warning System Light and Horn Package

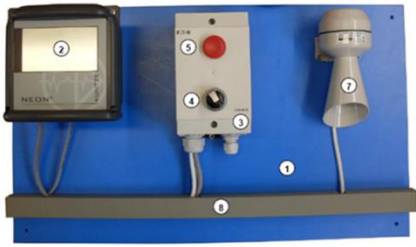
(Also available with an Optional Beacon Light)



1. Mounting plate 595 mm x 300 mm x 10 mm
2. NEON Gas Control System
3. Distribution box
4. ON/OFF switch for the horn
5. Fault lamp mounted on distribution box
6. External beacon signal lamp for wall mounting – optional extra art. no: 555.623
7. Horn
8. Cable channel

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Installation Instructions



Control panel installation:

The Neon Control box, light and horn are all pre-mounted on a panel for the ease of installation.

1. Mount the Gas Warning Alarm System on the wall or a frame.
2. Loose the screws of the distribution box and remove the upper part.
3. Connect the local power supply (see wiring diagram next page).

If the external beacon light was also purchased with the unit, then:

4. Mount the external signal lamp at the intended place.
5. Connect the external beacon lamp – a second horn could be connected too (wiring diagram).
6. Fix the screws of the distribution box and mount the upper part at the lower part.
7. The Gas Warning Alarm System is now ready for operation.

The control panel should be mounted outside the plantroom entrance door – before the site operatives entered the plantroom. If this is not possible, then it should be located as close to the entrance doors as possible for the early warning.

Sensor installation:



1. Unscrew the screwcap.
2. Take the sensing element out of protective packaging and remove the protective bit with the short-circuit (this is a transport protection bit).
3. Fit the sensing element gently into the sensor holder. The correct position is indicated by a groove. Position the sensor element in such a way that you will not bend the connecting pins. Check the sealing ring and screw the screwcap on.
4. Mount the sensor holder with the 2 clamps provided so the sensing element is pointing vertically downwards. Sensor should be positioned approximately 30cm above the floor level.
5. Now you can connect the M12 cable to the sensor.

Important note!

The sensor must be installed in a cool and dark surrounding, away from any direct draft, heat and is away from direct sunlight and windows and doors. The sensor must never get wet!

The sensor cable from the sensor holder and the power cable for the additional beacon light may need extending, it is the installer's duty to ensure that cables are run/extended to reach the control panel before the commissioning visit.

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Wiring Diagram

