LENS™ Wireless
The wireless solution to detect gases

Outdoor sites
Confined spaces
Tunnelling application ...

LENS™ Wireless is the first gas detection solution that allows personal monitors and area monitors to share gas readings and alarms with one another.

Now when a gas hazard, man-down, or panic situation causes an instrument to alarm, all peers in the connected group will instantly be notified of the hazard and the person in danger.

When seconds matter, you can rely on help from workers nearby, rather a control room or call center hundreds of miles away.

Safety is everyone’s concern. It’s our mission.
Wireless gas detectors

**Lens Wireless** technology, available with portable detectors such as Ventis Pro and area monitors such as the Radius BZ1, represents a new approach to global security for people evolving in hostile environments.

Today, these devices are able to communicate between them in a large worksite perimeter and in a wireless way.

- Turnkey solution, ready to use for a maximum safety
- There is no need to make studies on site
- Mesh network with possibility to link until 25 isolated or disconnected monitors

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**How it works**

Wireless communication between devices maintains the wireless share of the measures and also of the alarms in case of gas danger (panic button, Man-down alarm, etc).

Workers getting wireless devices are immediately warned in case of alarm. They are also able to positively influence the outcome through more informed decision-making.

- Possibility to set up the display in order to access peer instrument gas readings and alarms
- Report on the network of all the registered alarms (push on panic button)
- Hierarchy of alarms and priorities: distinction between the main alarm (red) and the alarm reporting (blue and red)
- Customizable alarm action messages such as “EVACUATE” or “VENTILATE”, etc.
**Confined space monitoring**

Wireless gas detectors are an ideal way for continuous monitoring in many confined space applications. Prior to the operation, and after the sampling, the worker outside the space only has to pair his device with the workers in.

In case of gas alert, the workers are directly warned and are able to intervene immediately and in a more efficient way.

- **Device for isolated workers (man down alerts) integrated and so is the “panic button” in order to ask for assistance**
- **Possibility to set up the display in order to access peer instrument gas readings and alarms in order to prevent from anoxia for example**
- **Easy underground communication between detectors and or area monitors**

**Tunnelling applications**

Thanks to its long range of communication, teams working in tunnels or pipes are warned in real time of what is happening up to 1.5 km away.

The alarm reporting (up to 5 devices) warms all workers without blocking the entire site. And getting all the information on the display is the best solution for a quicker action.

- **Important and powerful mesh network with possibility to link until 25 monitors**
- **Long-range communication:**
  - up to 300 m between 2 Radius BZ1
  - up to 100 m between 1 radius and 1 Ventis Pro
- **Possible 5 alarm reporting between Radius devices (i.e 1.5 km in free field)**
The **Radius™ BZ1** gas area monitor is an atypical kind of portable gas detector. It was designed to prevent from hazardous gases 24 hours per day and 7 days a week without getting the problems linked to fixed installations.

- **Multi-gaz Ventis Pro** detectors are equipped with a variety of new safety features (historic of events, panic button, alert messages, etc.) that raise the bar on worker safety and are highly configurable.

- **Ventis Pro 4**
  - Compatible with:
    - Catalytic explosive sensors
    - CO, H2S, HCN, NO2, O2, SO2 electrochemical sensors

- **Ventis Pro 5**
  - Compatible with:
    - Catalytic explosive sensors
    - CO, H2S, HCN, NH3, NO2, O2, PH3, SO2 electrochemical sensors
    - CH4, CO2 infrared sensors

- Compatible with the following sensors: explosive gases, C12, CO, H2, H2S, HCN, NH3, NO2, O2, SO2 and VOC’s (Volatile Organic Compounds)
- Runtime: 168 hours (7 days) without pump or 84 hours with pump
- 108 decibel (dB) at 1 m (3.3 ft) redundant audible alarms
- Visual alarm LEDs (red and blue) and customizable alarm action messages such as “EVACUATE” or “VENTILATE”, etc.
- Important and powerful mesh network with possibility to link until 25 monitors
- 300 meter line on site
- Share gas reading and alarms between Ventis™ Pro personal monitors and Radius™ BZ1 area monitor
- Dimensions: 290 x 290 x 550 mm
- Weight: 7.5 kg
- Ingress protection: IP66
- Humidity range: 15% - 95% non-condensing (continuous)
- Certifications: UL, ATEX, IECEx and CSA

- Lens Wireless, proprietary mesh network between detectors and / or Radius BZ1 area monitors (range 100m line of sight)
- Four visual alarm LEDs (2 red and 2 blue)
- 95 decibel (dB) audible alarm and vibration alarm
- Sample pump in option for confined spaces
- Custom start-up messages, alarm action messages
- Man-down alarm and dedicated panic-button
- Rugged IP68 dust and water
- Dimensions:
  - 104 x 58 x 36mm without pump
  - 172 x 67 x 65mm with pump
- Weight:
  - 200g without pump
  - 390g with pump
- Certifications:
  - UL, ATEX, IECEx, and CSA

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