

Protected while connected

How Bluetooth® technology can save your life



Bluetooth put simply



Bluetooth is a wireless technology standard for exchanging data over short distances (using short-wavelength UHF radio waves in the ISM band from 2.4 to 2.485 GHz) from fixed and mobile devices. A Bluetooth product contains a small computer chip with a Bluetooth radio and software. When two Bluetooth devices want to speak to each other, they first need to be paired up. One common application is to stream voice or music from a phone or tablet to a wireless audio headset or hands-free connection in a car. Until now, connected items have been part of our daily personal life. This trend is now entering the world of PPE and gas detection. It is not by chance that MSA has introduced Bluetooth technology into several product groups such as hearing protection and gas detection. The goal is to improve your safety and make your working life easier!

Left/RIGHT Wireless World headsets

The safest connection to the world

There are three different categories of hearing protection.

Passive ear muffs are the most commonly used category, offering mechanical attenuation and containing no electronics. This solution is suitable for applications where there is no need for communication or a critical need for awareness of the surrounding environment.

Active hearing protection supports the wearer in many situations such as when they need to communicate with co-workers or need to hear environmental sounds which can be crucial for safety. MSA's **CutOff** technology allows for awareness of surrounding sounds because the sound is reproduced inside the ear muff with an adjustable gain.

But in some applications, workers need to communicate in a very noisy environment with the client or the back office. People working alone while operating noisy equipment, such as forestry workers, need to remain connected in order to receive incoming communications from a team-mate or client etc.

Connected hearing protection such as MSA's new **left/RIGHT Wireless World (WW)** technology meets this need. With its integrated Bluetooth function, the hearing protection can be easily connected to any compatible mobile phone or Bluetooth radio. Incoming calls can be received while working in noisy environments and while staying protected with a safe sound level inside the ear muff. For optimal performance, highly efficient microphone filters eliminate surrounding noise for the caller.

Two product configurations are available – left/RIGHT WW with Bluetooth and AUX input socket and left/RIGHT WW Dual with CutOff environmental sound function and a build-in FM radio tuner. The left/RIGHT WW products are available as a **headband version** or **helmet mounted version** with enclosed adapters to fit various helmet models.

Being connected has never been safer!



ALTAIR® 4XR and 5X multigas detectors with integrated Bluetooth

Safety – Awareness – Immediate results

MSA's integrated Bluetooth connectivity enables scalable solutions, eliminating the need for costly investment in wireless infrastructure. By incorporating **Bluetooth** as a feature in the **ALTAIR 4XR** and **ALTAIR 5X**, MSA offers wireless safety benefits to everyone. By downloading the **MSA ALTAIR Connect** app from Google Play and pairing with any compatible Android device using the operating system version 4.0 or higher, your gas detector can be turned into an enhanced safety and productivity tool.



Stay connected with alerts from the field

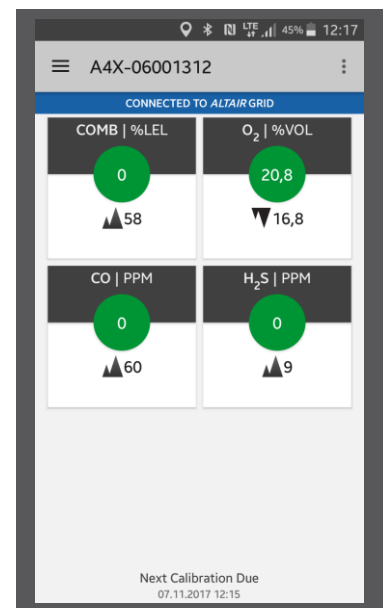
Pairing the Bluetooth connection of the gas detector with the smartphone enables the instrument's live readings to be shown within the ALTAIR Connect app. In addition to live readings, gas alarms and man-down alarms are also transmitted to the app. Additionally, in lone worker applications, when an individual is carrying an **ALTAIR 4XR** or **ALTAIR 5X** with a paired Android device, alarm notifications and man-down alerts will be sent automatically via SMS text notification with GPS location* to single or group recipients. These recipients, such as the HSE supervisor or plant fire department, can then respond immediately to the individual in need, knowing where they are and to what they have been exposed.

Improved safety management and compliance

Bump test frequency is often stipulated by national or corporate regulations; however, bump testing before each day's use is the accepted best practice for safety and is therefore MSA's recommendation. MSA ALTAIR Connect app users can easily review existing calibrations and email* them to their supervisors on demand. When companies have stored their personal alarm settings as a template in the app, users can easily compare the gas detector settings with the template to ensure compliance before starting work. Being compliant requires just one click to update the instrument's settings.

Maintenance and operational support

Trained and authorised customers using a Bluetooth equipped gas detector are able to change settings remotely via the app. This function can be protected with a password. In case of an event, the user is able to review the event records of the gas detector at any time and can send it via the smartphone's email* account to the appropriate receiver.



View of **ALTAIR 4XR** live gas readings on an Android smartphone

* using Android device-based application or function