



# Why comfort increases your safety



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Whatever the task at hand, the one thing no one needs is distraction. That's why our portable multi-gas detectors Microtector III G888 and Polytector III G999 are not only two of the most powerful, but also two of the most comfortable to wear devices in the world. The design awards and customer feedback they have received can attest that.

## Design – comfort and ease of use are essential

The G999 multi-gas detector features an integrated pump to analyze gas in confined spaces without compromising the wearer's comfort with additional equipment.

But a gas detection device with the ability to monitor gases in confined spaces is not always necessary. If your application does not require it, the G888 is a great choice. We usually describe it as „the world's smallest and lightest multi-gas detector with wireless RF communication“.

While it's easy to see why all the technical features and functions of both gas detection devices increase safety, you might wonder why the shape is important at all.



Personal gas monitors use the principle of diffusion to measure gas concentrations. The molecules of the contaminant being measured passively diffuse into the sensor. For the measurement to be accurate, the instrument must therefore be worn in the worker's "respiratory zone". This ensures that the detector's readings come from the same area as the air that is entering the worker's lungs.

The larger the instrument, the less likely it is that the device will be used properly, and the greater is the risk that the wearer will put it aside because it interferes with work or just feels uncomfortable. A key requirement for personal gas detectors is that they can be worn comfortably. That's why it is so important that gas detection devices are comfortable to wear. Ideally, the instrument should be small enough and so easy to use that you forget it's there – until an alarm is triggered!

## Design – more than just size

However, size is only one aspect of wearing and operating comfort. That's why the Microtector III G888 and the Polytektor III G999 both come with an anti-slip case, an easy-to-use 3-button interface and a display that can be flipped, so that it can be read comfortably from any angle.

## Size must not limit functionality

This new generation of portable gas detection devices makes safety meet design. The G888 unites compact size, exceptionally light weight, and outstanding performance.

The 4 to 7 gas detector with a wireless module is not only the smallest and lightest in the industry, it is also the most flexible and easy to use one. With five sensor slots and the ability to measure up to seven atmospheric hazards simultaneously, the G888 offers more than comparable gas detectors. We offer sensors for oxygen, flammable gas, CO<sub>2</sub>, CO, H<sub>2</sub>S and a wide variety of additional toxic gases



**One device for two tasks**

We designed the G999 to offer maximum versatility. With an integrated, powerful pump for safe ambient air analysis in hazardous areas, it can conveniently be operated with just one hand or even attached to work clothing to keep both hands free. As a portable device for personal protection, it detects up to seven hazardous gases in its wearer's immediate vicinity by diffusion.

It takes just one finger movement to switch the device into pump mode. In this mode, the G999 analyzes the air in confined spaces via a hose, before and after entering the area. An optional telescopic tube allows measurements in areas that cannot be reached with a hose.

Without the optional pump, the G999 provides extended operating time for many hours of use without the need for recharging in between. Five sensor slots and additional sensor combinations, such as a fourth electrochemical sensor for toxic gases and oxygen or a PID sensor for volatile organic compounds (VOC) are available.



**Certified for safety**

The G888C and the G999C are ATEX certified as Intrinsically Safe for use in Ex zone 1 hazardous locations. The versions G888M, G999M, G999E and G999P carry additional certification as a Hazardous Area Group 1 Mining Monitor for use in underground hazardous locations and mines as well as Ex zone 0.

**Connected Safety**

Safety concerns the whole team, whether they are present at the monitoring site, or coordinating emergency response. All versions of the G888 and the G999 transmit measurement data, alarms and connection statuses in real time. They use dependable, secure, RF (radio frequency) technology to communicate this data to the TeamLink, a central, portable communications hub. The TeamLink is a complete, ATEX certified, self-contained operations center for up to ten wirelessly linked instruments. Real-time monitoring from a central point ensures all members of the team are safe.

Larger teams with more than 10 portable gas detection devices can be safeguarded with the optional G888/999 Visual Software. Every team member, their detector's measurement data, connection status and alarms can conveniently be displayed on a laptop or tablet screen. The pager function enables you to send short messages, which can easily be answered from the gas detection device at the push of one button.



*The gas detection devices communicate via radio with both portable and stationary devices.*

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