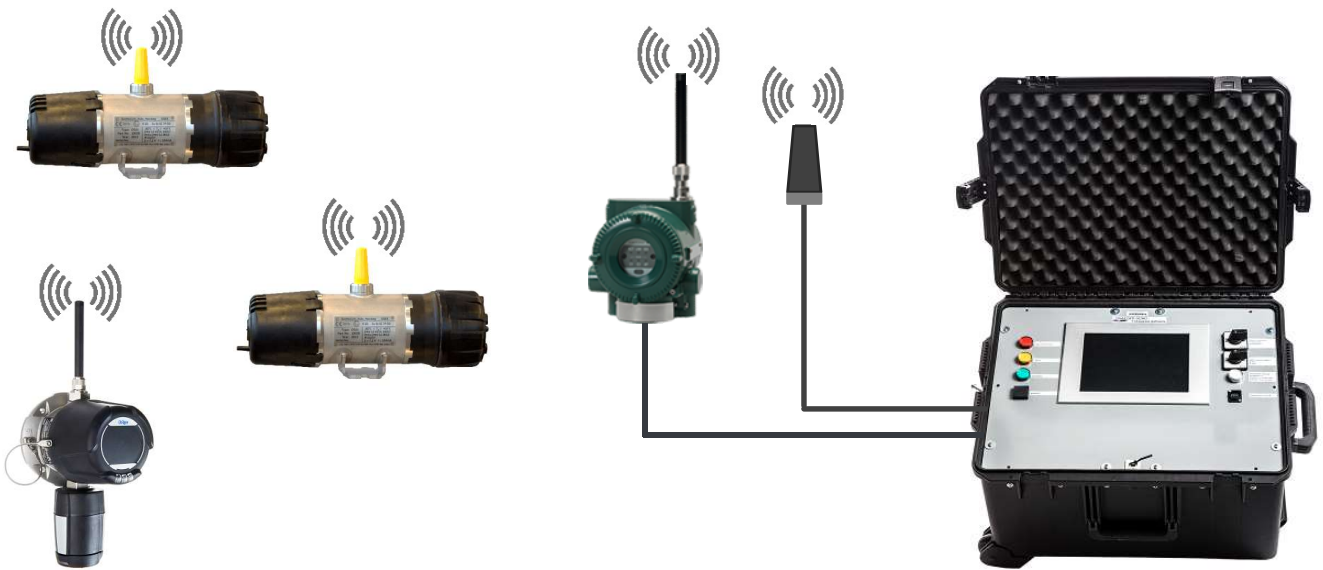# GAS SECURE

**A Dräger Company**

# MOBILE WIRELESS GAS DETECTION SYSTEM

Wireless Gas Detectors      Access Points      Control System

## OVERVIEW

The GasSecure wireless gas detection (GD) system variant "**MOBILE**" is a compact stand-alone solution built into a protective case with wheels. The system is specifically designed for temporary installations and site surveys. It can accommodate up to 32 wireless gas detectors communicating with the access point, which is connected to a gateway integrated with the programmable logic controller (PLC). Our offering includes the **GS01** for flammable gases and the **Polytron 6100 EC WL** for toxic gases and Oxygen. The integral human machine interface (HMI) provides full access to alarms, gas readings, diagnostics and system status. Remote access is facilitated with an optional mobile radio antenna.

Each complete system is individually pre-configured to the site requirements and then assembled and tested before delivery. The user only needs to install the wireless gas detectors and the access point and then connect mains power to the system.

## FEATURES

**True wireless** – No cables to field instruments present significant cost and time savings as well as installation flexibility.

**Fast response –** Direct initiation of alarms for gas presence.

**Wide range of gases** – Hydrocarbon gases, Oxygen and >100 toxic gases from one supplier.

**ISA100 Wireless compliant** – Fully based on this open platform for easy integration of additional field wireless instruments.

**Complete solution** – Includes PLC, status lamps, HMI, all software and settings preloaded for easy commissioning even in remote locations.

**Industry-standard interfaces** – Facilitates integration to higher control systems and integration of 3rd party equipment.

**Mobile & transportable** – Ideal solution for temporary installations or site surveys to determine radio coverage.

## www.GasSecure.com

# SPECIFICATIONS

## FIELD DEVICES (quoted separately, project dependent)

| | |
|---|---|
| Wireless gas detector | GS01, GS01-EA, Polytron 6100 |
| Wireless access point | ISA100 Wireless compliant |
| Mobile radio antenna | Optional for remote access |
| Sounders & beacons | Optional |

## ENVIRONMENTAL & ELECTRICAL

| | |
|---|---|
| Temperature | -40 to +65 °C [1] |
| Humidity | 0 to 100% RH [2] |
| Ingress protection | IP66 |
| GS01 battery | Lithium-Thionyl Chloride |
| Access point power | Powered by system power |

## REFERENCES / LITERATURE

Please review the following for detailed specifications:

| | |
|---|---|
| GS01 / GS01-EA | GasSecure GS01 (-EA) datasheet |
| Polytron 6100 EC WL | Dräger P 6100 datasheet |
| Wireless access point | Manufacturers datasheet |
| Gateway | Manufacturers datasheet |
| Phoenix Contact items | Datasheets at phoenixcontact.com |

## ON-SITE INTEGRATION

The system is designed as a ready-to-use turnkey solution first of all for temporary installations, field tests and site surveys. Integration of 3rd party wireless and wired equipment is possible e.g. flame detectors or temperature & pressure sensors.

Maintenance and local access is enabled with the service port. A mobile radio antenna can be provided as option for remote access to the system.

Alarms, measurement values, diagnostic data and wireless signal strength and quality are continuously logged and stored in the inclusive USB storage.

The "Mobile" system includes 8 digital inputs and outputs, which may be used for integration of alarm devices.

## CONTROL SYSTEM

| | |
|---|---|
| Gateway | ISA100 Wireless compliant |
| PLC | Phoenix Contact AXC |
| I/O modules | Phoenix Contact AXL |
| Touch panel | Phoenix Contact TP3105S |

## ENVIRONMENTAL & ELECTRICAL

| | |
|---|---|
| Temperature | 0 to +60 °C |
| Humidity | 10 to 95% RH (non-condensing) |
| Ingress protection | IP44 |
| Grounding | Grounding with mains power cord |
| System power | 100 - 240 VAC |

## INTERFACES & MECHANICAL

| | |
|---|---|
| HMI touch panel | 10.4" TFT-Display, 800 x 600 Pixel |
| Service port | Ethernet10/100 Mbit/s, RJ45 |
| | SD Card (plugged in PLC) |
| Dimensions (WxHxD) | 625 x 500 x 366 mm |
| Weight | Approximately 25 kg |

## EXAMPLE HMI DISPLAY



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1) GS01 range is -30 to +55 °C (up to +65 °C on request).
2) Except for wireless access point: 5 to 95% RH.

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