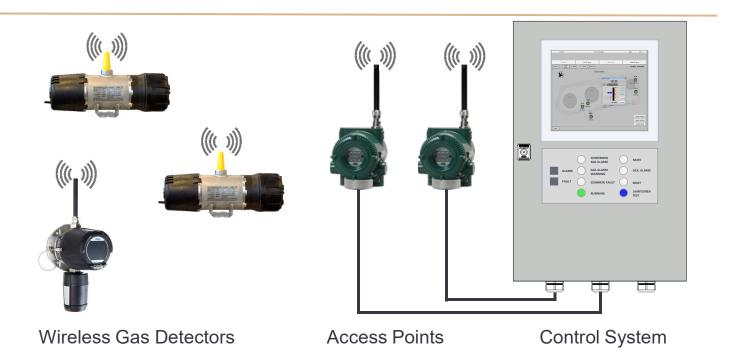
### SECURE

A Dräger Company

# TURNKEY WIRELESS GAS DETECTION SYSTEM - MEDIUM



#### **OVERVIEW**

The GasSecure wireless gas detection (GD) system variant "MEDIUM" is a stand-alone solution that only requires a mains power supply for operation. The system is designed for onshore and offshore applications. It can accommodate up to 80 wireless gas detectors communicating with up to four access points, which are 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 human machine interface (HMI) provides full access to alarms, gas readings, diagnostics and system status. The system also includes a critical alarm panel (CAP), optional uninterruptible power supply and data logger. Each complete system is individually pre-configured to the site requirements and then assembled and tested before delivery. The user only needs to fit the wireless gas detectors, install the access points and connect mains power to the system.

#### **FEATURES**

**Truly 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, alarm panel with buzzers, 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 3<sup>rd</sup> party equipment.

## **SPECIFICATIONS**

#### FIELD DEVICES (quoted separately, project dependent)

Wireless gas detector GS01, GS01-EA, Polytron 6100

Wireless access point ISA100 Wireless compliant

SHDSL modem 1) Optional Sounders & beacons Optional

#### **ENVIRONMENTAL & ELECTRICAL**

Temperature  $-40 \text{ to } +65 \text{ °C }^{2)}$ Humidity 0 to 100% RH  $^{3)}$ 

Ingress protection IP66

GS01 battery Lithium-Thionyl Chloride

Access point power 10 - 26 VDC (24 VDC nominal)

#### 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. Integration of 3rd party wireless and wired equipment is possible e.g. flame detectors or temperature & pressure sensors. Hardwired signals can be terminated directly in the system cabinet or in a separate I/O cabinet that is interfaced to the system via Ethernet.

The wireless GD system "MEDIUM" can easily integrate into an on-site distributed control system (DCS). The interface between the two systems is Modbus TCP.

Maintenance and local access is enabled with the service port. The "MEDIUM" system also contains a data logger, which retains 30 days of measurement and diagnostic data.

#### **CONTROL SYSTEM**

Gateway ISA100 Wireless compliant

PLC Phoenix Contact RFC
Bus coupler, I/O station Phoenix Contact IL

Touch panel Phoenix Contact TP3150S

#### **ENVIRONMENTAL & ELECTRICAL**

Temperature 0 to +60 °C

Humidity 10 to 95% RH (non-condensing)

Ingress protection Indoor use

Grounding 6 mm<sup>2</sup> protective & instrument earth

System power 100 - 240 VAC

UPS battery (optional) 12 Ah (2 hour ctr. system operation)

#### **INTERFACES & MECHANICAL**

HMI touch panel 15" TFT-Display, 1024 x 768 Pixel

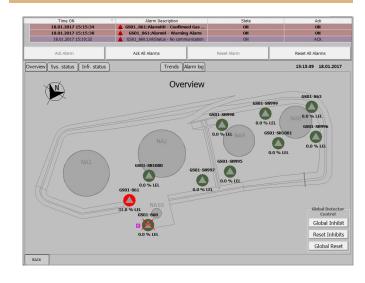
Critical alarm panel 4 LED, 4 buttons, 2 buzzers
Service port Ethernet10/100 Mbit/s, RJ45

To on-site DCS Modbus TCP

Dimensions (WxHxD) 600 x 800 x 400 mm

Weight Approximately 40 kg

#### **EXAMPLE HMI DISPLAY**



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

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