GAS
SECURE

A Dräger Company

WIRELESS GAS DETECTION SYSTEM WITH ANALOG OUTPUT

Gas Detectors   Access Point & Gateway   D/A Converter   REGARD System
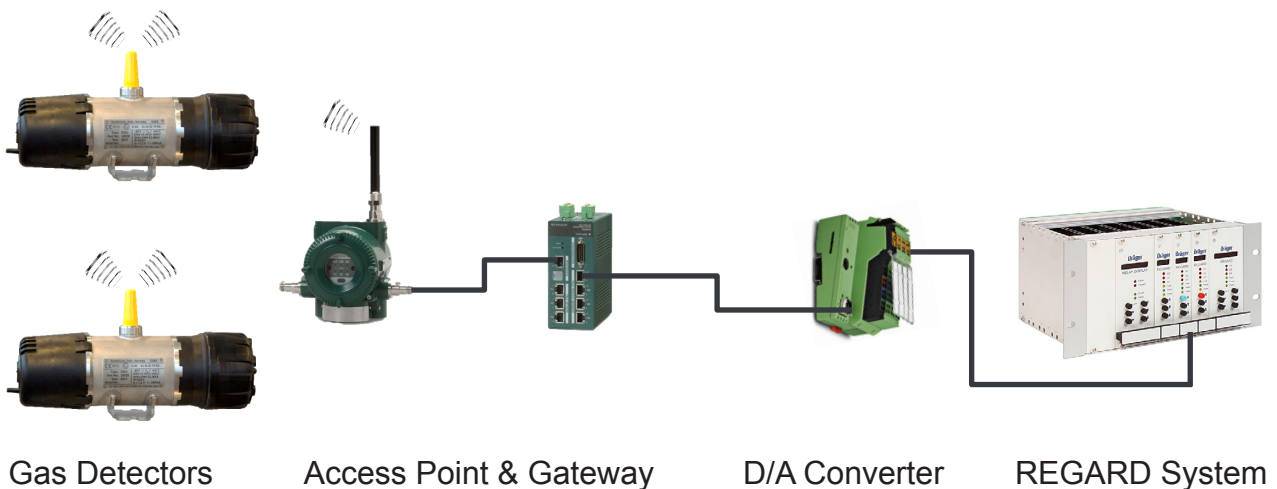
OVERVIEW

GasSecure GS01 wireless gas detector is also offered with an analogue 4 to 20 mA output solution. This offering is ideal for seamless integration into existing Dräger REGARD control systems and can accommodate multiple GS01 detectors communicating with ISA100 Wireless™ access points and gateway.

A small scale controller with inline analogue output terminal converts the digital data into 4 to 20 mA signals. Input to the REGARD control system is realized by means of the Dräger optical card, a single channel control card specifically for infrared gas detectors with local display and two gas alarm levels. For the GS01 this card is programmed with separate fault levels for low battery warning, low IR transmission and beam block.

FEATURES

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

Fast response – Initiation of alarms for gas presence.

Modular design – Easy to expand, add detection points and combine with Dräger detectors for toxic gases.

Full user interface – Visualization and access to all safety critical and maintenance data.

Turnkey upgrade – Seamless extension of legacy REGARD systems with wireless gas detection technology.

www.GasSecure.com

SPECIFICATIONS

FIELD DEVICES

Wireless gas detector	GasSecure GS01 or GS01-EA
Wireless access point	Yokogawa YFGW510
Sounders & beacons	(Optional)

ENVIRONMENTAL & ELECTRICAL

Temperature	-30 to +50°C [1]
Humidity	0 to 100% RH [2]
Ingress protection	IP66
GS01 battery	Lithium-Thionyl Chloride
YFGW510 power	10 - 26 VDC (24 VDC nominal)

REFERENCES / LITERATURE

Please review the following for detailed specifications:

GS01 / GS01-EA	GS01 / GS01-EA datasheet
YFGW510	GS 01W02E01-01EN
YFGW410	GS 01W02D01-01EN
Phoenix Contact	ILC 131 ELH / IB IL AO 2UI-PAC
REGARD	Optical card p/n 42 06 085

Applications

GasSecure offers the world's first truly wireless IR gas detector for demanding industrial applications. This new concept in hydrocarbon gas detection is also available with analogue output for easy integration into legacy REGARD control systems. Applications include:

- Oil & gas production platforms
- Terminals, tank farms and storage depots
- Petrochemical plants & refineries
- Gas terminals & processing plants
- FPSO / FLNG vessels
- Oil & gas exploration rigs

1) Extended range to +65°C on request, contact GasSecure.
2) GS01 specification. YFGW510 is 5 to 95% RH (non-cond.)

CONTROL ROOM DEVICES

Gateway	Yokogawa YFGW410
D/A converter	Phoenix Contact small-scale controller with analogue output terminal
Control system	Dräger REGARD with optical card

ENVIRONMENTAL & ELECTRICAL

Temperature	0 to +50°C
Humidity	20 to 80% RH (non-condensing)
Ingress protection	Indoor use
YFGW410 power	10 - 26 VDC (24 VDC nominal)
REGARD power	24 VDC

OUTPUTS

The REGARD optical card provides:

Local display for actual gas concentration

Front panel LED's for status indication

4 alarm relays

Repeat of analogue signal (e.g. to connect to PLC system)

DATA VISUALISATION & STORAGE

Available options for the REGARD control system include:

- Dräger RVP 5000 touch panel
- Dräger Vision32 Software

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