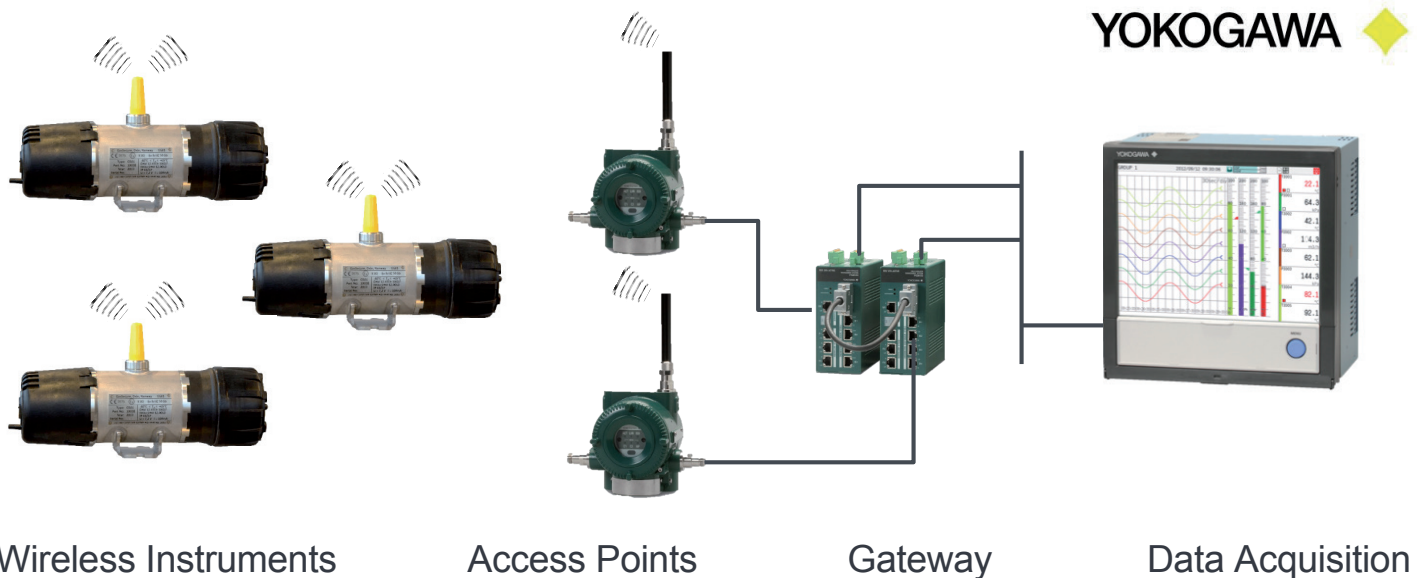


# INTEGRATED WIRELESS GAS DETECTION SOLUTION



## OVERVIEW

The GasSecure integrated wireless gas detection solution provides a highly cost effective system to detect, display and archive critical safety data. The concept includes GasSecure's wireless GS01 gas detector connected with Yokogawa's monitoring systems and ISA100 Wireless infrastructure. The latter consists of gateway and access point, which can both be offered fully redundant. The wireless data signals are recorded and processed with a SMARTDAC monitoring station that offers convenient touch screen interfaces for easy access to real-time and historical data. For an alternative PC-based monitoring system, Yokogawa's FASTTOOLS software is available. The integrated solution provides diagnostic information and alarms of the entire wireless gas detector network and can control external beacons and sirens. This new GasSecure offering is highly adaptable, very capable and easy to operate.

## FEATURES

- True wireless** – No cables to field instruments present significant cost and time savings as well as installation flexibility.
- Fast response** – Including communication to control room.
- Full redundancy options** – Available for both hardware and recorded data.
- ISA100 Wireless compliant** – Entirely based on this open platform for easy integration of additional field wireless instruments.
- Modular design** – Easy to expand and add detection points.
- Custom human interface** – Full visualization of all safety critical data.

# TECHNICAL DATA

## FIELD DEVICES

Wireless gas detector	GasSecure GS01
Wireless access point	Yokogawa YFGW510

## ENVIRONMENTAL & ELECTRICAL

Temperature	-40 to +65 °C <sup>1)</sup>
Humidity	0 to 100% RH <sup>2)</sup>
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	GasSecure GS01 datasheet
YFGW510	GS 01W02E01-01EN
YFGW410	GS 01W02D01-01EN
YFGW610	GS 01W02D02-01EN
SMARTDAC GX20	GS 04L51B01-01EN

## APPLICATIONS

GasSecure offers the world's first truly wireless IR gas detector for demanding industrial applications. This new concept in hydrocarbon gas detection is now also available as all-in-one wireless gas detection solution. The integrated system is field proven and a flexible and cost efficient offering for small and medium size installations. Applications include:

- Oil & gas production platforms
- Storage tank farms
- Petrochemical plants & refineries
- Gas terminals & processing plants
- FPSO / FLNG vessels
- Oil & gas exploration rigs

1) GS01 battery temperature limitation -30 °C.

2) GS01 specification. YFGW510 is 5 to 95% RH (non-cond.)

## CONTROL ROOM DEVICES

Gateway	Yokogawa YFGW410
Media converter	Yokogawa YFGW610 (optional)
Monitoring station	SMARTDAC or PC-based with FASTTOOLS software

## ENVIRONMENTAL & ELECTRICAL

Temperature	0 to +50 °C
Humidity	20 to 80% RH (non-condensing)
Ingress protection	IP20
YFGW410/610 power	10 - 26 VDC (24 VDC nominal)
SmartDAC power	100 to 240 VAC

## OUTPUTS

Ethernet (10BASE-T/100BASE-TX) with protocols TCP, UDP, IP, ICMP, ARP, DHCP, HTTP, FTP, SMTP, SNMP, Modbus.  
RS-232 or RS-422/485 with Modbus/RTU (optional)  
VGA output (optional)  
Digital module with relay contact output, SPDT (optional)  
External storage medium: SD card (SD/SDHC, up to 32 GB)

## EXAMPLE DISPLAY GRAPHICS

