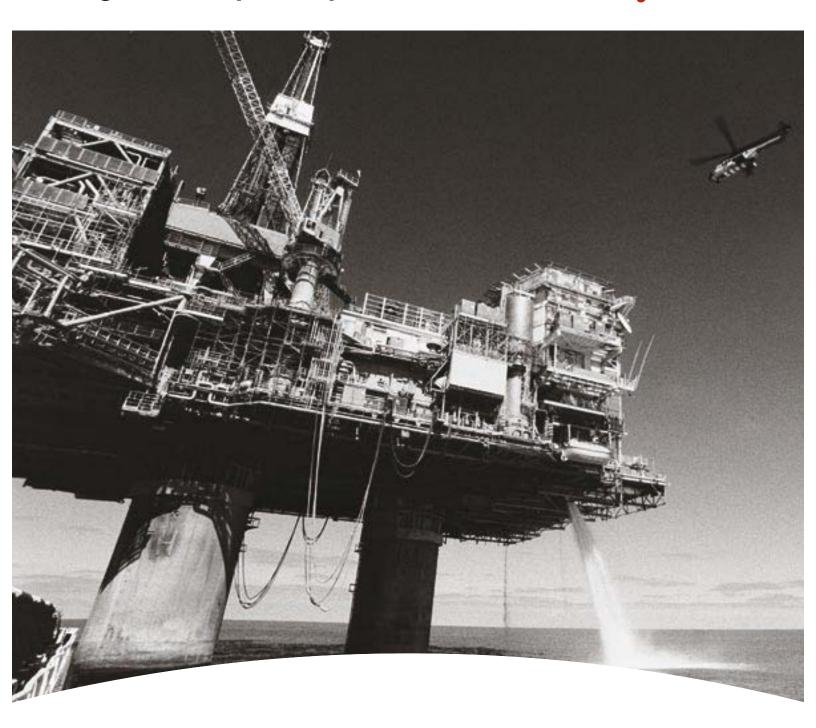
# **Sieger Searchpoint Optima Plus**

# **Honeywell**





Advanced infrared point gas detector certified for use in explosive atmospheres

# **Searchpoint Optima Plus**





#### **Benefits**

- Fast speed of response
- Dual channel, fully compensated infrared optical configuration
- Failsafe operation
- Immune to catalytic poisons
- Increased availability
- False alarm rejection with ✓² Software™
- No moving parts
- Works in inert atmospheres
- Reduced routine maintenance
- Advanced integral fault diagnostics
- Optional Modbus RS485 multidrop output

### **Applications**

- Offshore oil and gas platforms
- Floating Production Storage & Offloading (FPSO) vessels
- Tankers
- Onshore oil & gas terminals
- Refineries
- LNG/LPG bottling plants
- Gas turbine power plants
- Solvent printing and coating plants
- Distilleries
- Gas compressor/metering stations

### **Accessories**

- DVC or DX100(M) Modbus Interface
- Standard weather protection
- Sunshade/deluge protection
- Storm baffle
- Dust barrier
- Gassing cap
- Remote gassing cell
- Duct mounting kit
- Flow housing
- Hand held interrogator

Advanced infrared point gas detector. Searchline Optima Plus is an infrared point flammable gas detector certified for use in potentially explosive atmospheres. The infrared detection principle offers the fastest speed of response, reduced routine maintenance and failsafe operation, when compared to conventional electro-catalytic based gas detectors. Advanced internal fault diagnostics and false alarm rejection algorithms; known as ✓² Software™; ensures that Searchpoint Optima Plus delivers the highest level of operational integrity.



# General specification



Output Measuring range Inhibit Warning Fault Over range	4 to 20mA sink or source, (Default current source) 1-3mA (Default 2mA) 0-4mA (Default 4mA) 0mA 20-21.5mA (Default 21mA)
Digital output	Optional Modbus RS485 multidrop output using DVC/DX100(M)
Weight	1.6kg
Accuracy	1.UNY
Optima PLUS (HC) Optima PLUS (ET)	Baseline <±1% LEL, 50% FSD <±2% LEL Baseline <±2% LEL, 50% FSD <±3% LEL
Repeatability	<±2% LEL at LEL 50% FSD
Linearity	<5% FSD
Response time	${\rm T_{50}}$ <4.5 seconds, ${\rm T_{90}}$ <6.5 seconds (for methane, including weather protection)
Operational and certified	-40°C to +65°C temperature range
Drift with time and over temperature range	-40°C to +65°C Baseline <±2% LEL 50% FSD <±4% LEL
Drift with pressure	0.1% (of reading) per mbar
Power supply	18-32V (24V nom) DC, <4.5W max
Environmental protection	IP66/67
<b>Diagnostics</b> (and re-calibration)	Via certified Hand Held Interrogator
Safety approvals	CENELEC (BASEEFA), SAA  ■ 12G EEx d IIC T5 (Tamb -40°C to +55°C)  T4 (Tamb -40°C to +65°C)  UL/CSA  Class 1, Div 1, Groups B, C + D (-40°C to +650C)  FTZU, BKI, GOSST
Performance approvals	DMT and FM Applied for
EMC compliance	EN 50081-1: 1992 EN 50082-2: 1995
Calibrations available	Calibrations for over 100 gases and vapors available. For other gases and vapors contact your local distributor.
Standard calibrations	Methane 100%LEL, Ethane 100%LEL, Propane 100%LEL, Butane 100%LEL, Ethylene/Ethene 100%LEL <sup>1</sup> , Methane 100%UEG (DMT Approved), Ethane 100%UEG (DMT Approved), Propane100%UEG (DMT Approved), Butane100%UEG (DMT Approved), Ethylene100%UEG (DMT Approved) <sup>1</sup> .
Special calibrations	Hexamethyldisiloxane 100%LEL, Butan-1-OI 100%LEL, Butanol-1 100%UEG, N-ButylAcetate 100%LEL, N-Butylacetat 100%UEG, Butanone (Mek) 100%LEL, Butanon 100%UEG, Cyclohexane 100%LEL, Cyclohexan 100%UEG, Cyclohexanone 100%LEL, Cyclohexanon 100%UEG, Ethanol 100%LEL, Aethanol 100%UEG, EthylAcetate 100%LEL, Ethylacetat 100%UEG, N-Heptane 100%LEL, N-Heptan 100%UEG, N-Hexane 100%LEL, N-Hexan 100%UEG, Propan-2-OI 100%LEL, Propanol-2 100%UEG, N-PropylAcetate 100%LEL, Propylacetat-N 100%UEG, Methanol 100%UEG, Methanol 100%UEG, Benzin 60/95 (Mixture) 100%UEG, Di-Ethylether 100%LEL, Ethylether 100%UEG, Methane 100%V/V, N-Pentane 100%LEL, AVTUR/JP8 (Aviation Fuel Mixture) 100%LEL, Di-Methyl Ether 100%LEL, Decamethyltetrasiloxane 100%LEL, N-Octane 100%LEL, N-Octane 100%LEL, Di-Methyl Ether 100%LEL, Di-Methyl Formamide 100%LEL, JP 1 (Aviation Fuel Mixture) 100%LEL, Methyl Iso Butyl Ketone 100%LEL, I-Butane 100%LEL, I-Butane 100% UEG, Pent-1-Ene 100%LEL, I-Propyl Acetate 100%LEL, 1-Methoxy-2-Propanol 100%LEL, 3-Ethoxy-1-Propanol 100%LEL, Oct-1-Ene 100%LEL, Hex-1-Ene 100%LEL, Chloroethane 100%LEL, N-Propanol 100%LEL, Methane 10%V/V, Propene 5%V/V, 1-Methoxy-2-Propanol 100%, 3-Ethoxy-1-Propanol 100%LEL, Methane 10%V/V, Propene 50%UEG, Di-Methyl Ether 100%UEG, Propane 40%V/V, Propylene Glycol Methyl Ether Acetate 100%LEL, Propane 60%V/V, Propane 20,000ppm, Butane 18,000ppm, Methyl I Amyl Ketone 100%UEG, Band A High IR 100%LEL, Band B High IR 100%LEL, Propylen 100%UEG, Propane (DMT Approved) 5,000ppm
Custom Calibrations	Propylene 100%LEL, Acetone 100% LEL, Aceton 100%UEG, Toluene 100%LEL, Toluol 100%UEG, O-Xylene 100%LEL, O-Xylol 100%UEG, P-Xylene 100%LEL, P-Xylol 100%UEG, Ethene 10%V/V, Propane 10%V/V, 1,2-Dichloroethane 100%UEG, Band C Medium IR 100%LEL, Band D Low IR 100%LEL, Benzene 100%LEL¹, Styrene 100%LEL¹, 1,3 Butadiene 100%LEL¹.  Note: ¹ Only available on Ethylene version Searchpoint Optima Plus.

As world leaders in gas detection solutions, Honeywell Analytics' Sieger systems provide the most efficient, practical and costeffective fixed-point equipment. Wherever protection is required from flammable or toxic gases, you can rely on our equipment to provide practical solutions and to help keep your business running safely and profitably.

## The Sieger range of fixed gas detection













Apex

Searchline Excel

**Signalpoint** 

System 57

Searchflame 16 705 HT Sensor

Typically used in the oil and gas distribution, petroleum extraction and chemical manufacturing industries, the Apex gas detector and transmitter functions across a wide range of detectable flammable and toxic gases. With its rugged 316 stainless steel enclosure, it is especially suited for extreme conditions, and provides a cost-effective gas detection solution for a wide range of applications.

Searchline Excel Cross Duct™ is an open path infrared gas detector for the detection of hydrocarbons within HVAC air intakes and ventilation ducting systems up to 5 meters in width.

It is based on the proven Searchline Excel, which covers ranges up to 200m.

ClearShield™ glass coating, infrared beam and heated ontical surfaces all combine to reduce downtime and increase system availability.

Signalpoint is a self-contained gas sensor system for either combustible or toxic gases, designed to make installation simple and maintenance minimal. Constructed in strong plastic, it is particularly suited for indoor applications in light industrial environments.

The System 57 controller provides display and alarm facilities for the full range of gas detectors. It comprises a rack unit with mounting options for channel control cards and interface cards.

Searchflame 16 is a range of optical flame detectors for detection of hydrocarbon and non-hydrocarbon flaming fires in designated hazardous areas. Operating on UV or UV/IR principles, they have a 120-degree field of view, providing the widest coverage available by any product.

The 705 High Temperature Sensor is a hazardous area certified sensor for the detection of combustible gases.

#### Find out more

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