



**Advanced infrared
point gas detector**

Sieger Searchpoint Optima Plus



Searchpoint Optima Plus Incorporates:

- The proven strengths of the original Searchpoint OPTIMA design
- Experience gained from over 75,000 units installed worldwide
- The latest technology and techniques used to develop the successful Sieger open path gas detector, the Searchline Excel
- Improved reliability

Why Infrared?

- Failsafe operation
- Fast speed of response
- Reduced routine maintenance
- Immune to catalytic poisons
- Long operating life
- Works in inert atmospheres

Why Searchpoint Optima?

- Can detect a wide range of hydrocarbon gases including solvents
- Increased reliability with no moving parts
- Increased stability from self compensating optics
- Immune to long term component drift
- Remote functional gas test facility
- Certified for North American and European Hazardous areas

Why Searchpoint Optima Plus?

- Increased false alarm rejection with $\sqrt{2}$ **SOFTWARE™**
- Increased uptime with contaminated optics warning
- Dynamic Heating Control ensures condensation free optics
- No undetected failures
- Improved diagnostics
- Integral event logging
- Reduced power consumption
- Certified to many hazardous area classification schemes including UL, CSA, ATEX and more

For over 50 years the Sieger name has been a world leader in the design and manufacture of gas detection instrumentation.

As part of the Honeywell Analytics line of Fixed gas detectors, Sieger is well recognized for advanced, innovative sensing technology and highly reliable, fit for purpose, cost effective gas detection solutions serving the most demanding of environments.

Experience in the design, manufacture, installation and maintenance of point infrared gas detection has resulted in a worldwide installed base of over 75,000 units operating from light industrial to the most demanding offshore petrochemical applications.

This expertise has resulted in Honeywell Analytics offering a new dimension in the supply of reliable infrared point gas detection with the release of the Sieger Searchpoint OPTIMA PLUS.

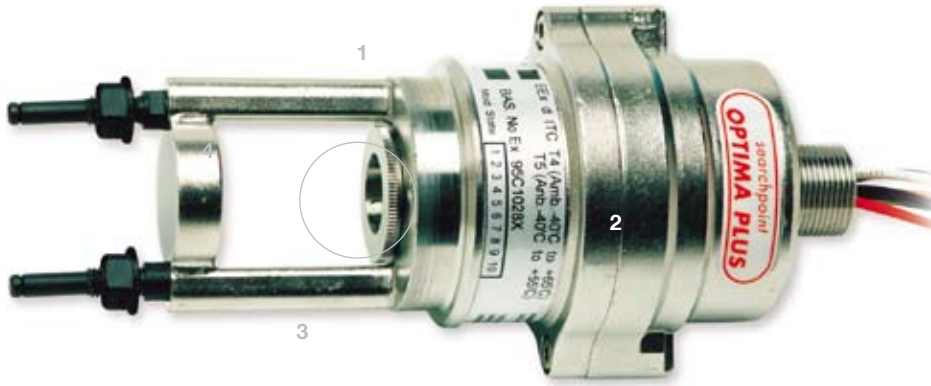
Typical Applications

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

Over 100 gas and vapor calibrations available. For a list of gases and vapors which Searchpoint OPTIMA PLUS can detect, contact your local representative.



XNX Universal Transmitter and Optima Accessories



1. Optics Block

The 4-channel (dual compensated) optics-block is the heart of the Searchpoint OPTIMA PLUS. It is specifically designed to compensate for changes in the external environment similar to 2-channel designs, but also compensates for long term component drift such as infrared sources and detectors. This combined with the de-focused beam provides the Searchpoint OPTIMA PLUS with the most stable optics design possible.

2. Microprocessor Including ✓² SOFTWARE™

The microprocessor controls the operation of the Searchpoint OPTIMA PLUS. New ✓² SOFTWARE™ signal processing and algorithms provide a new dimension in false alarm rejection delivering the highest level of operational integrity.

3. Heated Optics Plus Dynamic Heating Control

Heated optic components, monitored via smart electronics, eliminate condensation build up with power saving features.

4. Remote Gassing Cell

Permanent fitting of this optional gassing cell within the optical path allows the remote injection of functional test gas to validate the performance of a Searchpoint OPTIMA PLUS.

Remote Gas Sampling Systems

For monitoring remote or inaccessible locations Searchpoint OPTIMA PLUS can be fitted with a flow housing and engineered into a gas sampling system. Single-point and multi-point systems are available for both hazardous and non-hazardous areas.



Sunshade / Deluge Protection

This multi-purpose accessory supplied as standard shields Searchpoint OPTIMA PLUS from the extremes of operational environments ensuring reliable operation.



Storm Baffle

This optional baffle reduces wind chill, salt and dust build-up in exposed applications subjected to high wind speeds e.g. Offshore HVAC intakes and FPSO turrets etc.



Standard Weather Protection

This accessory supplied as standard, offers the best compromise between water/dust ingress and speed of response.



Dust Barrier

This optional barrier fitted inside the standard weather protection provides additional protection against the ingress of dust and contamination entering the optical path.



Gassing Cap

The gassing cap enables confidence checking of the Searchpoint OPTIMA PLUS. It provides a close fit onto the standard weather protection and can be installed without the use of any special tools.



XNX Universal Transmitter

The XNX offers a truly universal gas sensing and communications platform that expands communications functionality while reducing installation and cabling costs associated with a gas detection system. The XNX communications module includes standard HART, with optional Modbus, Fieldbus or three relays (two alarm, one fault). XNX enables multi-drop installations of the Optima, instead of the usual 'home run' required for each detector; for example, a single communications cable can be run between up to 32 detectors on a Modbus protocol. The XNX supports electrochemical, catalytic bead and infrared gas sensing devices.



Duct Mounting Kit

This mounting plate arrangement enables installation of Searchpoint OPTIMA PLUS with a duct/ventilation system. It enables functional gas testing without removing the Searchpoint OPTIMA PLUS from the ducting system.

Field Interrogation



Multi Purpose Hand Held Interrogator (HHI)

This versatile commissioning /maintenance tool is certified for hazardous areas and used to reconfigure Searchpoint OPTIMA PLUS for different gases and fault diagnostics. The same interrogator can be used with the original Searchpoint OPTIMA and Searchline Excel (open path gas detector) reducing operator training.



SHC-1 Protection Device

This device provides electrical protection for the HHI when used with conventional terminal housings under a gas free permit to work system.

Honeywell Analytics Lines of Business



Commercial

Gas detection from standalone units to fully engineered, multi-point systems, all offering cost-effective regulatory compliance

- » Applications: parking structures, chillers, mechanical rooms, office towers, commercial buildings, shopping centers, swimming pools, golf courses, schools and universities, laboratories

Industrial

Renowned Sieger and Manning gas detection systems with advanced electrochemical, infrared and open path sensing technologies

- » Applications: oil and gas, cold storage, water/wastewater treatment, chemicals, engine rooms, plastics and fibers, agriculture, printing and light industrial

Portables

Single or multi-gas Lumidor and other premium detectors with compact, lightweight designs ranging from simple alarm only units to advanced, fully configurable and serviceable instruments

- » Applications: underground utility and electricity ducts, boiler rooms, post-fire sites, sewers, industrial plants, industrial hygiene, first responder teams, remote fleets



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