Sieger Apex

Honeywell





Flexibility that meets your requirements

Sieger Apex



Easy to Install

- Sensor can be remotely mounted up to 100m from the transmitter
- On board relays allow for local audible/ visual alarms
- Strong integral 316 STST mounting bracket
- Large easy access cable entries
- Easy access terminal blocks
- Wide range of accessories

Easy to Use

- Intuitive menu operating system
- Clear on screen instructions guide user
- Simple for button operation
- Multiple language options
- Transmitter recognizes new sensor cartridges
- Easy to change gas types
- Large clear backlit graphical LCD display

Easy to Maintain

- Simple plug in under power sensor cartridge
- Smart cartridges are supplied pre calibrated
- Common transmitter for all gas types
 Simple filter replacement

Apex takes all the best elements of gas detection design and combines them into one unit. Apex provides the highest performance, installation flexibility, a wide range of accessories and a choice of communication outputs. All this is provided in a package that is easy to install, operate and maintain.

Typical applications include:

Petrochemical

Exploration drilling rigs, production platforms, FPSO's, oil and gas terminals, chemical plants, oil and gas tankers

Heavy Industrial

Steel manufacture, ship building

Manufacturing

Automotive, glass and ceramics, aerospace, printing and coating, cosmetics

Pharmaceutical

Research labs, solvent storage areas, process areas, demineralisation plants

Transmitter

The robust hazardous area approved Apex transmitter housing and mounting bracket is made from 316 Stainless Steel. It has a large backlit LCD display, simple 4 button operation, 3 fully configurable relay outputs and selectable sink, source or isolated 4-20mA signal. The transmitter is common to all types of sensor.

Sensor

The Apex Sensor can be mounted directly on the transmitter or remotely up to 100m away. There are two versions of sensor; one for both catalytic and electrochemical type sensor cartridges and one for the thick film (semi conductor) type cartridges.

Smart cartridge

The sensors can be fitted with a choice of over 40 toxic gas ranges and wide range of detectable flammable gases. Each cartridge is pre calibrated and simply plugs into the sensor. The Intrinsically Safe design allows cartridges to be changed with the unit under power. The transmitter recognizes a newly fitted sensor cartridge and automatically reads all the configuration information from it.



General specification



General Specification			
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Power consumption (typical)	Apex 3W toxic, 4.6W catalytic, 4.6W thick film		
Outputs Relay outputs Analogue signal Digital output	A1, A2 and Fault 2A at 30Vdc* selectable normally open or normally closed and normally energised or normally de-energised 4-20mA sink, source or isolated output LonWorks (optional) – only available on ATEX certified version		
Material and weight	316 Stainless Steel 5.25kg (11.55lbs)		
Accuracy	Baseline ±3%, at 50% FSD ±4%		
Repeatability	±2% at 50% FSD		
Linearity	<5% FSD		
Peenenee time (turicel)			
Catalytic Toxic	T50 <5 seconds, T90 <10 seconds T50 <12 seconds, T90 <30 seconds		
Stability (typical) Temperature: Time:	<±5% FSD (zero), <±5% FSD (span) <±3% FSD / year (zero), <±4% FSD / year (span)		
Operating temperature	-40°C to + 65°C (-40 to + 150°F). Operating temperature of electrochemical cell cartridges is cell dependent. LCD display operates over -20°C to +65°C		
Operating humidity	0-99% (non condensing)		
Environmental protection	IP66/67 to BS EN60529:1992 (Equiv. NEMA 4X / NEMA 6)		
Approvals	CE Approved to all applicable European directives. EMC EN50270: 1999 type 2		
Performance standards	Exam (DMT) EN50054/50057/50271. CSA C22.2 No.152 (with cartridge 2110B3754)		
Certification	ATEX 🔂 II 2G EEx d ia IIC, CSA Class 1, Division 1 groups B, C and D C22.2 No.152 UL Class 1, Division 1 groups B, C and D, and Class 1, Zone 1 AExd [ia] IIC ATEX and UL T4 -40 to +80°C (-40 to +176°F), T5 -40 to +55°C (-40 to +131°F) CSA T4 -40 to +75°C (-40 to +167°F), T5 -40 to +55°C (-40 to +131°F) * CSA / UL rating 1A at 28Vdc		
Available gases and ranges*			
Gas	Formula	Ranges	Cell type
Flammable	Various	0-100%LEL or 0-10%LEL	CAT/TF
Ammonia	NH ₃	0-50ppm, 0-100ppm, 0-400ppm or 0-1000ppm	ECC/TF
Arsine	AsH ₃	0-0.2ppm	ECC
Boron trichloride	BCI ₃	0-6ppm	ECC
Bromine	BR ₂	0-0.4ppm	ECC
Carbon monoxide	CU	0-100ppm, 0-200ppm or 0-500ppm	
Chlorine diavida			
Diborane	B H	0-0.4ppm	ECC
Dichlorosilane	SiH CI	0-10ppm	ECC
Ethylene oxide	СНО	0-4ppm or 0-50ppm	ECC
Fluorine	F.	0-4ppm	ECC
Germane	GeH,	0-0.8ppm	ECC
Hydrogen	H ₂	0-1000ppm	ECC
Hydrogen bromide	HBr	0-12ppm	ECC
Hydrogen chloride		· PP	
Hydrogen cyanide	HCI	0-20ppm	ECC
	HCI HCN	0-20ppm 0-20ppm	ECC ECC
Hydrogen fluoride	HCI HCN HF	0-20ppm 0-20ppm 0-12ppm	ECC ECC ECC
Hydrogen fluoride Hydrogen sulfide	HCI HCN HF H ₂ S	0-20ppm 0-20ppm 0-12ppm 0-15ppm, 0-20ppm, 0-50ppm or 0-100ppm	ECC ECC ECC ECC/TF
Hydrogen fluoride Hydrogen sulfide Nitric oxide	HCI HCN HF H ₂ S NO	0-20ppm 0-20ppm 0-12ppm 0-15ppm, 0-20ppm, 0-50ppm or 0-100ppm 0-100ppm	ECC ECC ECC ECC/TF ECC
Hydrogen fluoride Hydrogen sulfide Nitric oxide Nitrogen dioxide	HCI HCN HF H ₂ S NO NO ₂	0-20ppm 0-20ppm 0-12ppm 0-15ppm, 0-20ppm, 0-50ppm or 0-100ppm 0-100ppm 0-12ppm	ECC ECC ECC ECC/TF ECC ECC ECC
Hydrogen fluoride Hydrogen sulfide Nitric oxide Nitrogen dioxide Oxygen	HCI HCN HF H ₂ S N0 N0 ₂ Q ₂	0-20ppm 0-20ppm 0-12ppm 0-12ppm 0-150ppm, 0-20ppm, 0-50ppm or 0-100ppm 0-100ppm 0-12ppm 0-21%V/V	ECC ECC ECC/F ECC/F ECC ECC ECC
Hydrogen fluoride Hydrogen sulfide Nitric oxide Nitrogen dioxide Oxygen Ozone	HCI HCN HF H ₂ S N0 N0 ₂ O ₂ O ₃	0-20pm 0-20pm 0-12ppm 0-12ppm 0-15ppm, 0-20ppm, 0-50ppm or 0-100ppm 0-100ppm 0-100ppm 0-21%V/V 0-4ppm 0-20pm	ECC ECC ECC/TF ECC ECC ECC ECC ECC
Hydrogen fluoride Hydrogen sulfide Nitric oxide Nitrogen dioxide Oxygen Ozone Phosphine	HCI HCN HF H ₂ S NO NO ₂ O ₂ O ₃ PH ₃	0-20pm 0-20pm 0-12ppm 0-12ppm 0-15ppm, 0-20ppm, 0-50ppm or 0-100ppm 0-100ppm 0-12ppm 0-21%V/V 0-4ppm 0-1.2ppm 0-20ppm	ECC ECC ECC/TF ECC ECC ECC ECC ECC ECC
Hydrogen fluoride Hydrogen sulfide Nitric oxide Nitrogen dioxide Oxygen Ozone Phosphine Silane	HCI HCN HF H ₂ S NO NO ₂ O ₂ O ₃ PH ₃ SIH ₄ SO	0-20pm 0-20pm 0-12ppm 0-15ppm, 0-20ppm, 0-50ppm or 0-100ppm 0-100ppm 0-12ppm 0-21%V/V 0-4ppm 0-21,2ppm 0-20ppm 0-20ppm 0-20ppm 0-20ppm	ECC ECC ECC/TF ECC ECC ECC ECC ECC ECC ECC

CAT- Electrocatalytic, ECC- Electrochemical Cell, TF- Thick Film Semi Conductor *For other gases and ranges not listed contact Honeywell Analytics.

* Oxygen detection products must only be used to detect oxygen depletion in air.

As World leaders in gas detection solutions, Honeywell Analytics' Sieger systems provide the most efficient, practical and cost-effective 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

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 optical surfaces all combine to reduce downtime and increase system availability. Designed for use in potentially explosive atmospheres in harsh environmental conditions, SearchPoint Optima Plus is ideal where speed of response, reduced maintenance and failsafe operation is essential. Common applications include offshore platforms, production storage and offloading vessels, and oil and gas terminals.

Searchpoint Optima Plus



Signalpoint

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.



Searchflame 16

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/R principles, they have a 120-degree field of view, providing the widest coverage available by any product.



The system s7 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.



705 HT Sensor

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

Please Note:

While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This publication is not intended to form the basis of a contract. © 2005 Honeywell Analytics







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For pricing or for further information, please contact us at our UK Office, using the details below.

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.