

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

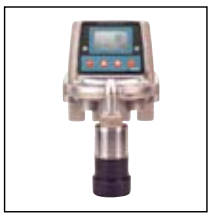
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Sieger Apex

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	
Power supply	24Vdc nominal (18-32Vdc)
Power consumption (typical)	Apex 3W toxic, 4.6W catalytic, 4.6W thick film
Outputs	
Relay outputs	A1, A2 and Fault 2A at 30Vdc* selectable normally open or normally closed and normally energised or normally de-energised
Analogue signal	4-20mA sink, source or isolated output
Digital 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
Response time (typical)	
Catalytic	T50 <5 seconds, T90 <10 seconds
Toxic	T50 <12 seconds, T90 <30 seconds
Stability (typical)	
Temperature:	<±5% FSD (zero), <±5% FSD (span)
Time:	<±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 Ⓔx 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	BCl_3	0-6ppm	ECC
Bromine	BR_2	0-0.4ppm	ECC
Carbon monoxide	CO	0-100ppm, 0-200ppm or 0-500ppm	ECC
Chlorine	Cl_2	0-2ppm, 0-5ppm or 0-15ppm	ECC
Chlorine dioxide	ClO_2	0-0.4ppm	ECC
Diborane	B_2H_6	0-0.4ppm	ECC
Dichlorosilane	SiH_2Cl_2	0-10ppm	ECC
Fluorine	F_2	0-4ppm	ECC
Germane	GeH_4	0-0.8ppm	ECC
Hydrogen	H_2	0-1000ppm	ECC
Hydrogen bromide	HBr	0-12ppm	ECC
Hydrogen chloride	HCl	0-20ppm	ECC
Hydrogen cyanide	HCN	0-20ppm	ECC
Hydrogen fluoride	HF	0-12ppm	ECC
Hydrogen sulfide	H_2S	0-15ppm, 0-20ppm, 0-50ppm or 0-100ppm	ECC/TF
Nitric oxide	NO	0-100ppm	ECC
Nitrogen dioxide	NO_2	0-12ppm	ECC
Oxygen	O_2	0-21%V/V	ECC
Ozone	O_3	0-4ppm	ECC
Phosphine	PH_3	0-1.2ppm	ECC
Silane	SiH_4	0-20ppm	ECC
Sulfur dioxide	SO_2	0-8ppm, 0-15ppm, 0-50ppm	ECC

CAT- Electrocatalytic, ECC- Electrochemical Cell, TF- Thick Film Semi Conductor

*For other gases and ranges not listed contact Honeywell Analytics.

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





High Tech/Government

A complete portfolio of gas and chemical detection instrumentation including infrared spectroscopy (MST) with no cross interference, to Chemcassette paper-based solutions (MDA Scientific) offering detection down to parts per billion

» Applications: semiconductor manufacturing and nanotechnology, aerospace propulsion and safety, specialty chemicals industry, research laboratories, emergency response

Technical Services

24/7 global network includes post-sales service and Systems Integration teams

» Emergency call out, service contracts, on/off-site repair, training and commissioning

» Complete range of spares, consumables and accessories

Find out more
www.honeywellanalytics.com

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Honeywell

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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