

# Gas Detection for the Water Treatment Industry

**Honeywell**



**Fixed and Portable Gas  
Detection Systems and  
Controllers for Water and  
Wastewater Plants**

# A Complete Range of Gas Detection Systems for the Water and Wastewater Industry



**Water purification and sewage treatment plants produce a variety of toxic and combustible gas hazards. In process areas, these include ammonia, carbon monoxide, chlorine, hydrogen sulfide, nitric oxide, nitrogen dioxide, ozone, sulfur dioxide and others. In confined spaces, there is a danger of oxygen deficiency. To protect employees and community, choose Honeywell Analytics gas detection.**

Honeywell Analytics brings decades of experience and the industry's most advanced gas monitoring instrumentation to serve the water and wastewater industry. We offer a complete line of fixed and portable gas detectors for use in and around your facility. Our solutions exceed

all federal, state and local occupational safety and health regulations. From standalone detectors to larger controller-based systems, Honeywell Analytics is dedicated to protecting people, equipment and environment through cost-effective gas detection.

## Gas Matrix Chart

Typical Applications	Honeywell Solution	Gases Detected
Bar Screen Room	SensePoint Pro	(CH <sub>4</sub> , H <sub>2</sub> S, O <sub>2</sub> , CO)
Wet/Dry Well (Lift Stations)	SensePoint Pro Optima Plus IR Impact Pro	(CH <sub>4</sub> , H <sub>2</sub> S, O <sub>2</sub> , CO) (CH <sub>4</sub> ) (H <sub>2</sub> S, CO, CH <sub>4</sub> , O <sub>2</sub> )
Chlorine Storage Room	Series 3000 XPIS Sat-XT X5 Portable	(Cl <sub>2</sub> , NH <sub>3</sub> , O <sub>3</sub> , ClO <sub>2</sub> ) (Cl <sub>2</sub> , NH <sub>3</sub> , O <sub>3</sub> , ClO <sub>2</sub> ) (Various gases avail.)
Sludge De-Watering	SensePoint Pro Sat-XT	(CH <sub>4</sub> , H <sub>2</sub> S, O <sub>2</sub> , CO) (CH <sub>4</sub> , H <sub>2</sub> S, O <sub>2</sub> , CO)
Wastewater Digester Tank	SensePoint Pro Optima Plus IR Impact Pro	(CH <sub>4</sub> , H <sub>2</sub> S, O <sub>2</sub> , CO) (CH <sub>4</sub> ) (H <sub>2</sub> S, CO, CH <sub>4</sub> , O <sub>2</sub> )
Aeration Tanks/Digesters	Series 3000 XPIS Sat-XT (IS)	(NO) (NO)
Pumps and Incinerators	SensePoint Pro	(CO, CO <sub>2</sub> )
Water Disinfection	Series 3000 XPIS Satellite XT	(Cl <sub>2</sub> , NH <sub>3</sub> )
Confined Spaces	SensePoint Pro Impact Pro X5	(O <sub>2</sub> , VOCs)

## Fixed Gas Detection



### Sensepoint

- Flammable, toxic and oxygen gas detection in proven electrochemical sensing technology
- Flammable detection available in either %LEL or PPM detection range
- IP 65/66 for use in harsh environments
- Intrinsic Safety (IS) design allows for easy exchange of the replaceable sensor while powered
- Fast speed of response and detection of 'sticky' gases such as Chlorine and Ammonia
- Designed for use with a wide range of controllers available from Honeywell Analytics or 3rd party

### Sensepoint Pro

- Includes all the features of the Sensepoint model plus premium advantages including hot swappable sensors and integrated LCD display
- Remote control allows non-intrusive, one-man operation
- Pre-configured, easy to install and maintain
- Suitable for indoor/outdoor use

### Series 3000 XPIS

- Gas detector 2 wire 4-20mA output
- Surecell™ electrochemical sensors for hot & humid environments
- ATEX, UL, CSA (cUL) certifications
- Explosion proof transmitter
- Reduced routine maintenance costs
- Long life sensing elements
- Permits 'hot swap' of replacement sensors reducing down time
- Onboard fault diagnostic software & display
- Patented 'Reflex' sensing element verification diagnostics
- Easy menu / icon driven calibration

### Optima Plus

- Fast speed of response to 100% LEL Methane, Ethane, Propane, Butane, Ethylene/Ethene
- Dual channel, fully compensated infrared optical configuration
- Heated stand offs and optics
- Failsafe operation
- Immune to catalytic poisons
- False alarm rejection with √2 Software™
- Works in inert atmospheres
- Advanced integral fault diagnostics
- Optional Modbus RS485 multidrop output
- Calibrates for over 100+ gases & vapors

### Satellite XT

- Detects a wide range of gasses in safe area applications
- Fast, reliable, specific gas detection
- Continuous real-time monitoring
- Interchangeable intelligent sensor
- No dynamic gas calibration required
- Generic sensor head electronics
- Low cost of ownership
- No moving parts

## Portable Gas Detection



### Minimax X4

- 4 gas detector for O<sub>2</sub>, flammable, H<sub>2</sub>S, and CO
- Attention grabbing audible, visual and vibrating alarms
- Easy to operate -- "flippable" icon based display
- User configurable
- Memory card slot built-in as standard

### Impact Pro

- Portable 4 gas (simultaneous) detector with user-swappable multi-sensor cartridges
- Attention grabbing audible, visual and vibrating alarms
- Rugged and water-proof (IP67 rated)
- Enforcer automated calibration and Safelink communication options
- Easy to use, configurable unit with robust built-in pump and data-logging
- Clear, backlit, easy-to-read display
- Disposable or fully serviceable cartridges
- Multi-lingual intuitive menu

## Controllers



### HA20/HA40/HA71

- 2, 4, 8, 16 channels depending on controller model
- Two standard SPDT common alarm relays for HORN, HIGH, WARN or FAULT
- Approvals: NEMA4X enclosure; Class I, Div. 2, Groups A,B,C,D
- Three independent alarm levels per channel
- Graphic LCD readout displays monitored data as bargraphs, trends and engineering units
- Alarm LED's flash when new and become steady after acknowledged
- Touch-and-magnetic keypad for non-intrusive operation in potentially hazardous locations
- Rack and wall mount versions
- Modbus RS-485 master and slave communications
- Scalable by linking multiple controllers to connect up to 160 points of detection
- Additional options are available specific to controller models

## Universal Transmitter



### XNX

- Works with Honeywell's full range of gas sensor technologies (Electrochemical, Infrared, Catalytic Bead)
- Expanded communications platform with standard HART® plus optional MODBUS, FOUNDATION Fieldbus™ (pending) or three relays (two alarm, one fault)
- Single interface provides complete diagnostic, alarm and gas concentration values
- Supports eight languages (English, Spanish, German, Italian, Portuguese, French, Russian, Chinese)
- Easy to install, operate and maintain
- Failsafe operation, fast response and long operating life
- Globally certified for hazardous areas

# Honeywell Analytics Lines of Business



## Commercial

Vulcain-brand gas detection from stand-alone 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



## Find out more

[www.honeywellanalytics.com](http://www.honeywellanalytics.com)

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### Technical Services

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## 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

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## 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

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H\_WasteWater\_V1 09/08  
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