

Experts in gas detection

Honeywell

In this issue of Sustainability Today, we are pleased to announce Solent Gas Consultants Ltd as our Gas Detection Company of the Month.

Solent Gas Consultants Ltd was established in 2019 by Richard Chambers in Lee-on-the-Solent, Hampshire. The initial aim of Solent Gas Consultants Ltd was to provide technical authoring and consultancy services to the gas detection market.

Richard has a strong background working in a senior technical role for 13 years at Honeywell, who are known as one of the world's leading suppliers of electrochemical and catalytic bead gas sensors, and in 2021, Honeywell asked Richard to act as an agent and to supply their complete range of gas sensing products.

Solent Gas Consultants Ltd is a supplier of Honeywell's gas sensors to the gas detection OEM market. Our customers build the sensors into gas detection equipment which are then sold into the gas detection market.

These gas detectors monitor levels of toxic gas, oxygen, and combustible gas to provide warning of a hazard, thereby protecting property and the health of personnel. Gas detectors remain an important part of a worker's safety, and are used in many applications and markets. Some major markets include oil and gas, semiconductor manufacturing, chemical plants, power stations, waste water treatment plants, boiler rooms, hospitals, tunnels, car parks, and indoor air quality in buildings and residential homes.

We asked Richard, what makes Solent's products different to those of its competitors, he answered, "Even though we are small, we offer competitive pricing, so our clients get complete value for money combined with my decades of experience. Having worked at Honeywell for so many years in a senior technical role, I know the product range extremely well. This allows me to provide world class technical support."

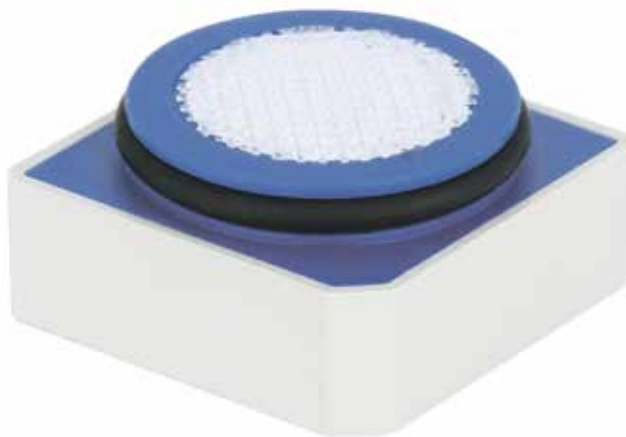
Intelligent iSeries Sensor Platform

Solent's range of digital iSeries gas sensors, manufactured by Honeywell, are small sensors with profiles 60% lower than the industry standard 4 series gas sensors.

The digital UART output of the sensors provide significant advantages over conventional gas sensors, making the sensor range ideal for Internet of Things (IoT) applications.

Key Features

- ▶ Multiple gases – CO, H₂S, O₂, SO₂ & LEL combustible gases – many more available soon
- ▶ Unique low-profile sensor design enables thinner, lightweight detector design
- ▶ Extended temperature and humidity extremes, with on-board temperature compensation
- ▶ All sensors 100% interchangeable without circuit modification
- ▶ 5 year extended operating life
- ▶ Digital UART Interface
- ▶ Sensors pre-calibrated during manufacture, with predictive calibration during operating life
- ▶ Fault and end-of-life indication
- ▶ OEM lock to prevent unauthorised sensor replacement
- ▶ Surface mount spring contacts – no PCB through holes to maximise mounting flexibility
- ▶ Sensor platform of the future – iSeries form factor to be utilised on future platforms



The New AQ7 Air Quality Gas Sensor Range (O₃, CO, SO₂ and NO₂) – The Best Choice for Ambient Air Quality (AAQ) Applications

Advances in technology have led to exciting and rewarding improvements in living standards but have also contributed significantly to a variety of serious environmental issues. Among these are the release of many types of chemical pollutants into the atmosphere that contribute to global and local environmental issues such as the greenhouse effect, sick-building syndrome, and ozone depletion. In addition to meeting increasing market demand for environmentally conscientious solutions, the hazards

of environmental pollution can be capable of causing severe injury within a short time period.

The demand for lower-cost, easily transportable solutions for these applications has grown substantially as public awareness and demand for healthier breathing conditions has increased, leading to a growing need for monitoring air quality across cities, offices, and residential areas with mobile, smaller and low-cost solutions.



The new Honeywell AQ7 Series Gas Sensors are a market leading range of air quality sensors, offering high resolution and low detection limits. The 4-electrode electrochemical technology is highly sensitive to low gas concentrations in the range of parts per billion (ppb). These sensors provide accurate measurements and have excellent gas specificity.

The AQ7 Series has the lowest sensor sensitivity decay over its full lifespan, which translates into the most stable and reliable sensors for environmental applications in the current market.

If you're an OEM looking to design and build Solent's sensors into commercial gas detection equipment, both fixed and portable, please get in touch using the information below.

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