



*Corporate Expertise*

*From the global experts in quality, technology and total cost of ownership of fire detectors.*



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Installation information: in order to ensure full functionality, refer to the installation instructions as supplied.



# *An integrated global network for truly local solutions*



- System Sensor is the world's largest manufacturer of intelligent and conventional detection devices for commercial fire & security applications, with 20 million devices shipped annually across the world. As part of Honeywell, a Fortune 100 global technology and manufacturing leader, we enjoy unparalleled support. This has enabled us to consolidate our position as the worldwide leader for technology, manufacturing quality and, more importantly, total cost of ownership of fire detectors.

Our state-of-the-art manufacturing and R&D facilities in Trieste, Italy, complements our global network of major fire systems integration and distribution partners, who serve end-users, consulting engineers and specifiers. We employ thousands of people across the world in facilities including Brazil, India, Russia and the United States. Add access to 25,000 R&D engineers, 300 of whom are based in Trieste, it's no surprise that we continue to set the industry benchmark for high quality, technically advanced detection solutions.

Despite the support of an expanding global network, we have a truly local approach to doing business. We develop devices in Trieste for the local EU market and our strategy is to research, design, manufacture them in the regions they are used.

## *The total package through partnership*

By entering into partnerships with the industry's largest fire engineering, distribution companies and panel manufacturers, who share our commitment to quality, service and advanced system design, we make certain that our products are taken to market in the most effective and responsible manner. Our

partners have exclusive access to our products, allowing them to be uniquely specifiable. This ensures that we can fully support their customers' businesses and provide end-users with the safeguards and guarantees that we believe are critical to a life-protecting system.

Our partnership approach includes marketing, sales, and technical service back-up to those who will ultimately design and install the system in the end-user's premises. Furthermore, we share all the best-practice knowledge that we've gained over the years with our partners to help their businesses stay ahead, whilst sticking to our core values of honesty, integrity and trust.

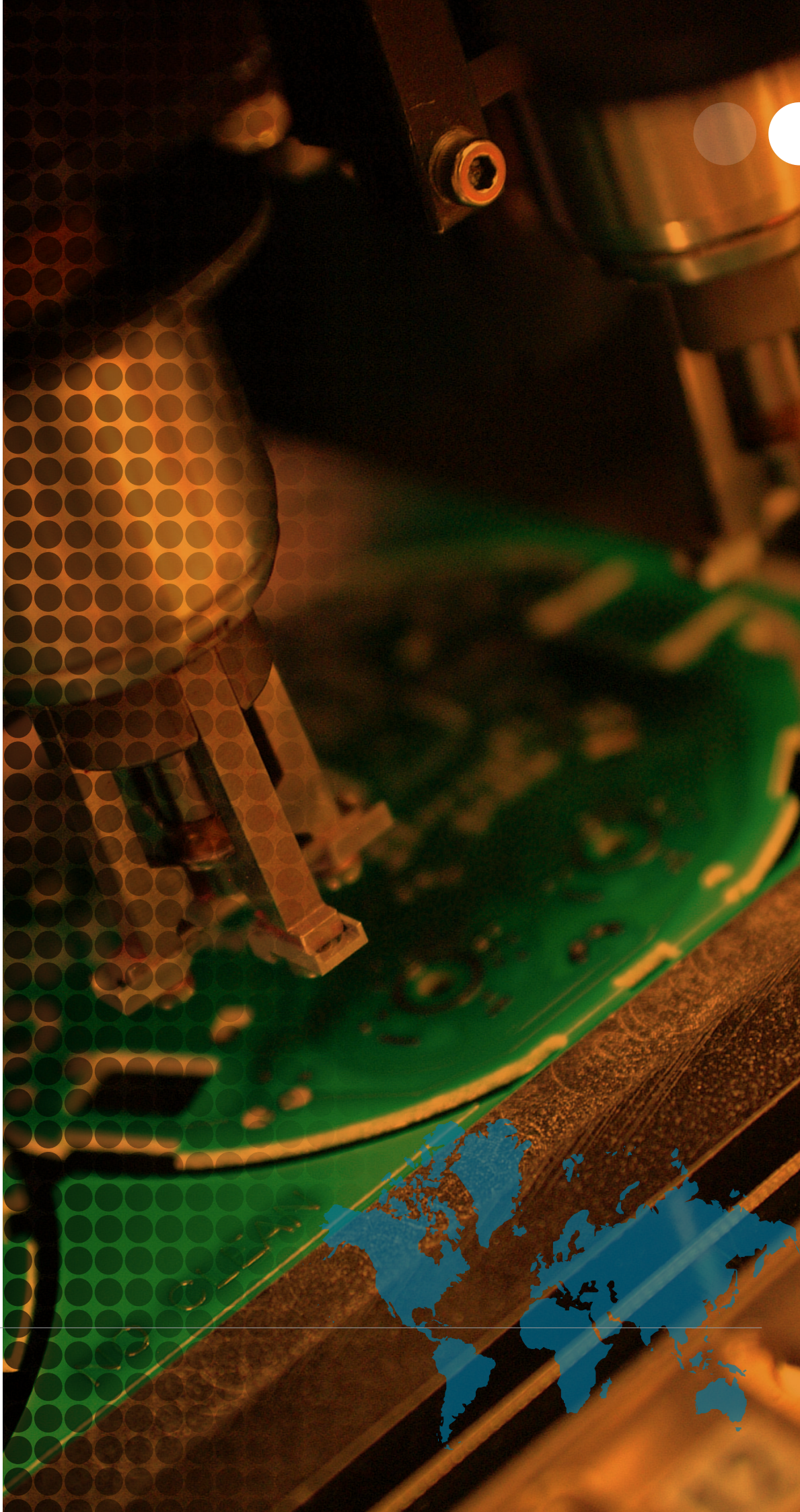
## *Bespoke branding & specialist protocol development*

Whether you want to sell our products using the System Sensor brand or that of your own, we provide choice and flexibility to make sure we deliver a solution that fits your unique requirements. Custom-built housings can be produced for our conventional or intelligent ranges, with dedicated communication protocols available as appropriate.

The System Sensor Series 200 Advanced Protocol is the key to allowing you to be uniquely specifiable, whilst offering significant benefits to your customers such as reduced installation costs and system life costs through less cabling and greater maintenance flexibility. We are the only company to offer bespoke OEM communication protocols and we are proud of the opportunities this provides.



- We make certain that our products are taken to market in the most effective, ethical and responsible manner. And we share all the best-practice knowledge that we've gained over the years with our partners.



•• Our 10,000 m<sup>2</sup> flagship European R&D and manufacturing facility in Trieste, Italy, is ISO9001 certified and accredited to ISO14001 for its environmental management procedures.



## Taking fire detection

- We pride ourselves on being first to recognise, harness and commercialise new technologies that will eventually set new standards in the detection of fire or the immunity to false alarms. Amongst numerous technical initiatives, we were the first company to put four sensors in a multi sensor/multi criteria point fire detector, are the only company to provide a high sensitivity laser point detector and the only company to use infra-red sensing in a multi sensor point detector. Furthermore, we are at the forefront of fire detection standards and work with legislative bodies across Europe to improve fire safety legislation for both commercial and residential properties.

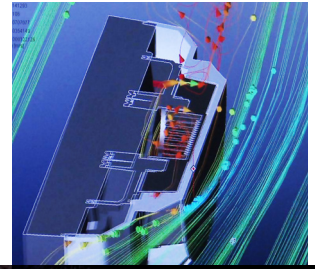
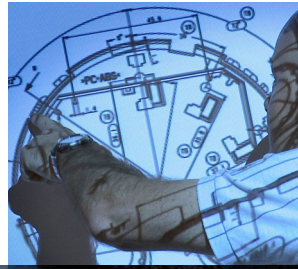
As new materials are being used to build and furnish properties, the fuels that burn or the substances that are classed as non-fires are changing. We're continually developing new products that react to these new threats of fires more quickly, that are more stable under real-world operating conditions and that demonstrate greater immunity to false alarms, whilst being easier and cheaper to install and commission. Examples include multi criteria detectors such as COPTIR and PTIR, our intelligent Series 200 Advanced Range and specialist detectors for more challenging environments.

Because we offer such an extensive product range you can be confident of choosing the right detector for the right application. What's more, all of our products are designed and manufactured by us so we have complete control over quality.

### *Think globally, act locally*

Whilst we have the support of global System Sensor & Honeywell organisations, our strategy is to research, design, and manufacture the devices locally in the regions they are used. Not only does this ensure that we satisfy the requirements of local approval, aesthetic and operational practices and electrical standards – it also means that we can draw upon best practice from entirely different continents and use this to streamline our whole operation, offering our customers best value.

Our growing portfolio of products in high profile venues and destinations across the world is a testament to user confidence.



# technology to a new level

## *The world's best manufacturing facility*

You can't make the world's best fire detection products without somewhere equally outstanding to research, create and produce them. Located in Trieste, Italy, is our 10,000m<sup>2</sup> flagship European R&D and manufacturing centre. Not only is this state-of-the-art, ISO 14001-certified facility critical to achieving such high manufacturing and quality standards, but it is also ISO 14001 accredited for its environmental management procedures. Both our business and our devices comply with the latest legislation such as WEEE and RoHS and none of our products use dangerous chemicals in the production process under REACH guidelines. We also invest millions in R&D, using innovative techniques such as 3D modelling to monitor airflow. Quite simply, our Trieste facility is the biggest and best of its kind.

Manufacturing principles borrowed from automotive production lines help cut lead times and raise quality standards. And we undertake hundreds of product and process improvements every year as part of an aggressive continuous improvement strategy. All this supports our partners by reducing working capital and the total cost of ownership and supply.

The final stage of the process involves meticulous testing. It's not enough in our line of business to have even one non-functioning detector leave the factory – our 100% testing guarantees that each and every product is in full working order. We also duplicate the test that the approval bodies use to certify our products to EN-54 in the factory. Life is precious to us – and our reputation equally so.

## *Delivering great service as well as great products*

As market leaders, we never lose sight of the reality that our very existence depends upon the satisfaction of our distribution partners and end-users. And we take every measure imaginable to ensure that our service matches the standards set by our products.

Initiatives such as Six Sigma Plus – based on the globally recognised Six Sigma approach of continuous process improvements to achieve error-free rates of 99.9997% – have been embraced by our whole organisation. Integrated with additional concepts such as Lean Enterprise, Activity Based Management and Honeywell Quality Value Assessment among others, helps us drive customer satisfaction upwards while driving the total cost of supply and ownership downwards. We were the original pioneers of the Honeywell Operating System, having been first to achieve silver status across the Group and our quality, OTTR delivery & flexibility metrics are second to none.

Add to this unrivalled support from our office staff, who with the help of fully digitised pre and post-order systems, make sure that all products are approved by the relevant certification bodies before timely despatch – it's easy to see why we're still the market leader.



# Detection for all applications

System Sensor is the world's largest manufacturer of detectors, producing devices for every segment of the market. From the feature-rich intelligent Series 200 Advanced range and speciality products for challenging environments to our conventional ECO 1000 range. All of our products are designed and manufactured to offer the best combination of performance, ease of installation and commissioning, build quality and user benefits for the application.

## Conventional detection

The conventional detector landscape changed beyond recognition with the launch of System Sensor's Series 300 and ECO 1000 ranges, which leveraged the sophisticated technology and advanced functionality of the intelligent detector into the conventional unit

## Intelligent detection

The most advanced detectors in our portfolio, intelligent units provide the ultimate protection for larger installations through their increased functionality and discriminatory abilities. The latest additions to the range are multi-criteria devices such as COPTIR, renowned for false alarm immunity. Each intelligent device is underpinned by our unique Communications Protocol to deliver more devices on the loop, greater control, configurability and device management.

## Speciality detection

Not all environments offer normal conditions. Laser detectors, air conditioning duct detectors, infrared beam detectors for large-area protection, intrinsically safe detectors for use in hazardous areas and our Filtrex unit for dusty conditions are examples of our commitment to extending the scope of a fire detection system as widely as possible.

## Evacuation Devices



A variety of call points and AV devices are available through KAC.

# Conventional



## Vision\*

- Automatic drift compensation to reduce false alarm
- Improved chamber design to minimise dust contamination
- Optional hand-held laser test unit to test from ground level, improving productivity during installation and maintenance
- Standard and deep bases



## ECO 1000\*

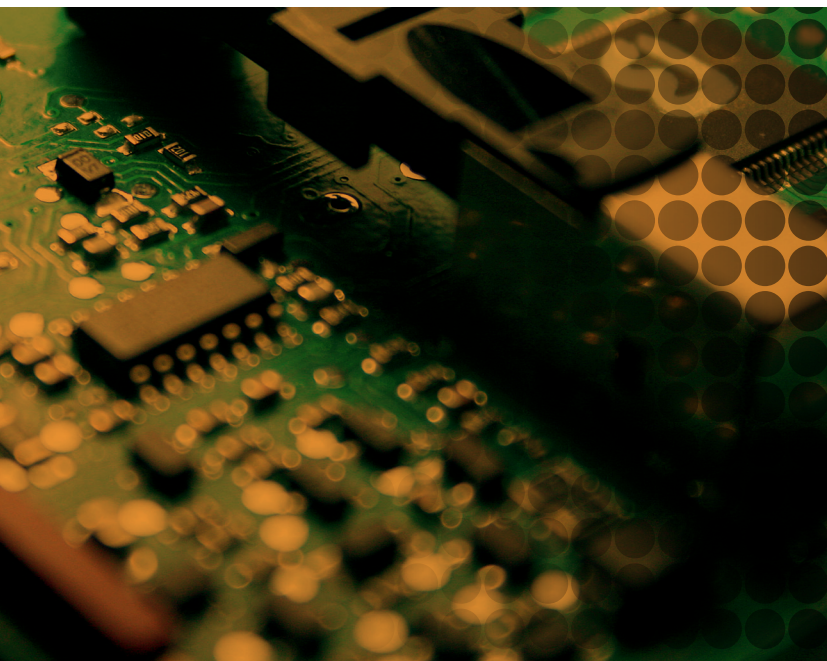
- Extremely cost-competitive conventional product range
- Designed for rapid response and high immunity to false alarms
- Unique laser test unit facility
- Drift compensation
- MED approved for marine use



## Series 300\*

- Conventional detector range that can have an address
- Unique remote interrogation features including sensitivity settings, drift compensation and numeric addressing
- Halfway between true conventional and analogue

\*Available in Optical, Optical Thermal and three heat versions (58°, 78° and ROR)



# Intelligent

## Series 200 Advanced

### Core Detection

The revolutionary Series 200 Advanced range delivers a unique detector platform that incorporates the latest digital Series 200 Advanced Protocol.



### Point Detectors

- 'Intelligent' point detectors
- Optical, thermal and Optical-thermal sensing
- Provides multiple thresholds to allow choice of operation to suit the application
- Drift compensation
- Tri colour LED to provide local status information
- Controllable isolation to allow loop mapping



### Modules

- Range of input and output devices
- Allows fire detectors to communicate with other building functions

## Multi Criteria Detection

### Series 200 Advanced



### PTIR

Photoelectric (P), Thermal (T)  
& Infra Red (IR)

- Offers comparable speed of fire detection response to ionisation technology
- Less susceptibility to false alarms and nuisances
- Panel controllable sensing elements
- Two integral tri-colour LEDs providing 360° visual indication of the device status
- Controllable isolation to allow loop mapping



### COPTIR

Carbon Monoxide (CO) Photoelectric (P),  
Thermal (T) & Infra Red (IR)

- The world's only 4 sensor multi criteria fire detector continually monitoring all four sensor elements in making the fire/no fire decision
- Uses sophisticated and responsive algorithms
- Ultra-immune to nuisance sources yet sensitive to the widest range of fire types
- Best immunity to false alarms

# Speciality



### Aspiration Detection FAAST - Class A

- Stand alone device for mission critical applications where very early warning fire detection is required
- Eliminates false alarm risks through patented filtering technology and dual optics (IR & blue LED)
- Remote monitoring via onboard Ethernet interface
- Integrated IP connectivity



### Aspiration Detection FAAST LT - Class C

- For use where traditional detection fails and maintenance is difficult
- Uses Pinnacle high sensitivity laser detection technology
- Single or dual channel detectors
- Double knock option
- Stand-alone or Advanced Protocol loop-based device



### Laser Detection Pinnacle

- The most sensitive point detector in the world
- Uses a laser instead of LEDs to sense smoke
- Superior early warning performance
- Nine sensitivity levels



### Beam Detection

- Up to 100m range
- Pulsed wide IR beam – stable and low power
- Easy alignment process – sight and display
- Drift / alignment compensation
- Advanced Protocol version



### Duct Detection InnovairFlex™

- Senses airflow speeds ranging from 0.5 -20 meters per second
- Flexible to fit square and rectangle configurations
- Conventional and intelligent versions



### Intrinsically Safe

- For use in use in hazardous areas with potentially explosive atmospheres
- Applies to conventional and intelligent detectors
- State-of-the-art sensing chambers and SMD circuitry for maximum reliability