Honeywell Building Solutions

Intelligent Fire Detection and Life Safety Management

IMPROVE RESPONSIVENESS, REDUCE RISK AND SUPPORT REGULATORY COMPLIANCE
Improved fire detection management demands new ways of working. You need to connect knowledge in order to speed response times, reduce risk and validate for regulatory compliance – to see the ‘big picture’.

Intelligent technologies bring existing and innovative life safety management applications together into one system that connects everything from smoke and fire detection, sprinkler supervision and emergency communications, to access control and electronic mustering, and control room to the emergency services. They keep people, assets and property safe and secure and mitigate risk.

**Today’s Challenges**

Honeywell Building Solutions recognises that facility managers face many challenges and changing legal requirements. As one of the world’s largest fire companies, we understand your need to protect people, facilities, assets and intellectual property – the lifeblood of your organisation. Critically we appreciate that you are under ever-increasing pressure to deliver performance improvement with fewer resources.

**Total Solution from a Single Source**

Honeywell intelligent fire solutions can be customised to the needs of any facility no matter how complex. And our offering is extensive. It spans products, project design and engineering and delivery of advanced solutions as well as the maintenance and servicing of them. We can also support electronic record keeping and signature thereby helping you to validate for regulatory compliance.

**Long-term Partnership**

We appreciate that fire detection and life safety management is a long-term business issue. It’s changing and unpredictable nature calls for flexible solutions. Our operating systems allow you to choose the technology that best suits your needs. And, because Honeywell open architecture works with multi-vendor equipment, it gives you freedom of choice. It protects your investment and reduces life cycle and operating costs without detriment to your life safety management strategy.
Honeywell fire solutions can be tailored to your specific needs and can grow as your requirements change. More than that, we can provide a single point of access to all the data and resources you need to monitor, control and protect your premises. This ability to process information quickly gives you greater strategic control over your operation.

Integration can help to solve the facility manager’s biggest dilemma – how to do more with less? It makes facilities safe and secure and cuts costs.
Just some of our fire solutions customers from around the world:

**Airports & Transport**
- Brussels International Airport, Belgium (pictured)
- T2 Munich Airport, Germany
- BAA T5, Heathrow, UK
- Dubai International Airport, UAE
- Glasgow Airport, UK
- GMR Hyderabad International Airport, India
- Kaohsiung Rapid Transit Corporation (KRTC), Taiwan
- MTR Corporation (select lines), Hong Kong
- Taoyuan Airport T2, Taiwan
- Tianjin subway & lightway, Taiwan
- Pittsburgh International Airport, USA
- Railcorp, Australia

**Healthcare**
- Ospedale San Carlo Borromeo, Italy
- Arcispedale Santa Maria Nuova, Italy
- Bedford Hospital, UK
- Derriford Hospital, UK
- James Cook University Hospital, UK (pictured)
- National University Hospital, Singapore
- Safee Hospital, India
- St John of God Hospital, Australia
- St. Teresa’s Hospital, Hong Kong
- Texas Scottish Rite Children’s Hospital, USA

**Stadia & Leisure**
- Burj Tower, Dubai
- Cardiff Millennium Stadium, UK
- Intercontinental Hotel (Regent), Hong Kong
- Meadowlands Sports Complex, USA
- National Museum of Korea
- The Sage Gateshead, UK
- Shildon National Railway Museum, UK
- Seoul World Cup Stadium, Korea
- Wembley Stadium, UK (pictured)
- Telstra Stadium, Australia

**Commercial**
- China Resource Building, Beijing
- Etiqa Twins, Malaysia
- Guangzhou JiePou Electron Factory, China
- Il Sole 24Ore, Italy (pictured)
- International Tech Park, Bangalore
- Nina Tower, Hong Kong
- Ocean Tower, Singapore
- Pune International Convention Centre (ICC), India
- Shanghai Futures Building
- Singtel ComCentre, Singapore
- Stock Exchange Center Shanghai, China
- Suntec City, Singapore
- Two International Finance Center, Tower 2, Hong Kong
- UOB Plaza II, Singapore
- Zhao Feng Universe Building, Shanghai, China

**Retail**
- Beijing Fifth Square Plaza, China
- Center One Mall & Center Stage Mall, India
- Marina Square, Singapore
- Tianjin Taida Citizen Plaza, China
- Westfield Derby, UK
- Liverpool ONE, UK (pictured)

**Government & Education**
- Hong Kong University of Science & Technology
- MIT Gurukul, India
- State of Michigan, USA (pictured)
- University of Toronto, USA
- Australian Government Centre, Australia
- Australian Tax Office, Australia

**Life Sciences & Research**
- Biocon Limited, India (pictured)
- Bicipolis, Singapore
- Jammu Regional Research Laboratory, India
- LONZA Pharmaceutical, Singapore
- Syntel, India

**Mission Critical**
- Acer Data Center, Taiwan
- Indian Oil Corporation Limited
- Transgás Atlântico/LNG Sines, Portugal (pictured)
Intelligent solutions for airports; stadia; hospitals; retail centres; commercial offices; government institutions; mission critical environments and the life sciences.
Honeywell integrated life safety solutions achieve coherent and timely operations between different building systems. They support access to a single point of monitoring and control and an enterprise-wide view of your facility.

**FIRE DETECTION AND ALARM**
- Primary monitoring and full control of life safety functions, including smoke and fire detection technologies with sprinkler supervision and integrated public address/voice announcement (PA/VA)
- Minimise unwanted alarms
- Regulatory compliance
- Emergency evacuation management
- Electronic mustering
- Faster, more effective safety management
- Integrated systems minimise impact of disaster and loss of business

**DIGITAL VIDEO SURVEILLANCE (CCTV AND DIGITAL VIDEO MANAGEMENT)**
- Identifies security incidents and false alarms
- Minimise unwanted alarms
- Powerful search capabilities
- Event-driven video recording and retrieval
- Completes recordings of evidence and post-incident analysis
- High performance cameras well suited to hostile industrial conditions
- IP illumination for visibility in total darkness
- Infrared cameras ensure peripheral areas are covered especially in hours of darkness
- Advanced digital matrix switching systems – the world’s most powerful with potential to support thousands of cameras
- Empowers security staff
- Productivity improvement
- Scalable over time and distance
- Regulatory compliance
- Faster, more effective security management

**ACCESS CONTROL**
- Authenticates every employee, contractor and visitor alike
- On-line electronic muster stations improve safety
- Timely management of access privileges – places and equipment
- Reception management
- Streamlines process time

**HEATING, VENTILATION AND AIR CONDITIONING (HVAC)**
- Certified smoke control solutions for emergencies
- Optimum control of environmental conditions (temperature, humidity) at all times of the day
- Efficient operation of the plant (boilers, chillers, pumps, batteries etc.)
- Automated notification of out-of-bounds conditions
- Assists with identification of problem areas

**LIGHTING**
- Automated monitoring and control of lighting – appropriate to prevailing conditions
- Linkage with other systems such as fire, HVAC and access control ensures correct lighting under all circumstances
- Faster, more effective security management

**STRUCTURED CABLE AND CABLE MANAGEMENT**
- Single structured cabling system for data and voice communications
- Cables and distribution systems for data, video and broadcast networks

**CONTROL ROOM: SYSTEMS INTEGRATION**
- Improved information management
- Faster, more effective alarm resolution
- Central point of emergency and disaster management
- Enables inter-operability with other systems
- Provides a single interface between all systems and allows display of data logic in work groups

**LINKS TO EXTERNAL AUTHORITIES**
- Links to external authorities eg. Fire, Police and other emergency authorities

**PUBLIC ADDRESS AND VOICE ALARM ANNOUNCEMENT**
- Automated announcements
- Efficient emergency communications
- Speeds safe evacuation
- Uses Voice Over IP technologies

**AUTOMATED MUSTERING**
- Automatically tracks who is in the facility (card holder management)
- Real time location
- Directs first responders to exact location
- Locates lone workers in a hazardous workplace

**LIFT AND ESCALATOR MANAGEMENT**
- Swift entry/exit
- Integrates with digital CCTV/video surveillance
- Crowd control

**MASTER AERIAL TELEVISION (MATV)**
- Master aerial distribution system
- Single access point for facility-wide air based communication – terrestrial and satellite

**LARGE FORMAT SCREENS**
- Big information screens
- Supports emergency communication
- Source, install, commission and service support

**VOICE AND DATA COMMUNICATIONS**
- Single structured cabling system for data and voice communications
- Seamless network connectivity
- Internal and external WiFi capabilities facilitate access to data from any position
- IP routing and switching
- IP security

Honeywell life safety technologies can be tailored to your individual needs. Specify any combination from a single standalone item to a fully integrated building management solution.
An intelligent approach to the monitoring and control of life safety functions makes for a safer facility. It will deliver operational efficiencies, improve your ROI and enable integration with your other building management and business systems.

You will want to protect your investment over time. Whether a new building or upgrading existing equipment, it is vital that your fire detection solution can accommodate changing needs and new technology. You will want to optimise the performance of your assets, cut operating costs and be ever-ready to scale up to meet changing legislation.

**THE VALUE OF INTELLIGENT SOLUTIONS**

Intelligent technologies enable you to do more with less. While traditional, standalone life safety functions provide clear benefit to end users, the real power lies in managing the different applications – smoke and fire detection, sprinkler supervision and emergency communications – as one solution and integrating this with your building and security management systems. Centralising building controls supports an ‘enterprise-wide’ view. It enables automated processes to happen on the basis of all the information available within the different applications and supports solutions that are scalable, interoperable and manageable over time and distance.

**HONEYWELL ENTERPRISE BUILDINGS INTEGRATOR™ (EBI)**

Honeywell Enterprise Buildings Integrator™ (EBI) underpins our converged solutions. The EBI platform is the point at which the different functions come together into a common operator interface. It pulls all data from the component applications together into one graphical user interface on a PC screen.

EBI’s intelligence comes from its ability to seamlessly integrate the different life safety, security and building management systems as well as link with key business systems such as HR, finance and supply chain. The result is a facility that is safe and secure, comfortable and energy efficient, innovative and productive and more profitable.

EBI delivers a measurable return on investment at the install stage and over the life span of a facility:

- **Integration:** data handled in a consistent way, converges with existing systems and processes and utilises standard technology
- **Safer and more secure:** the ‘big picture’, first level automated response to events and cuts false alarms
- **Reduces risk:** strategic control, easy identification/expiration, improved compliance, defined migration paths and multi-vendor compatibility
- **Increased functionality and operational efficiencies:** knowledge sharing, peer-to-peer control and centralised event storage
- **Cuts operational costs:** typically 20% saving from efficient resource deployment, empowers operators and simplifies training
- **Lower installed costs:** convergence and integration of IP networks, leveraging cabling infrastructure and clearer project management

**Economic:** better ROI, data transparency, inherent flexibility, integration with business systems and opportunity for additional revenue streams (EPOS and above-market rents)

**Grows with your business:** fully scalable, fits all facilities/groups of buildings and integrates seamlessly to accommodate new installations

**MAKING INTEGRATION HAPPEN**

With 75% of a facility’s operational expenses falling to maintenance and running costs, decisions made at the design and construction phase have far-reaching implications. Choosing the right integration partner is vital. At Honeywell we not only understand fire and life safety management, we also appreciate the true meaning of integration and can factor in critical variables such as business goals and your need to validate for regulatory compliance. Our track record speaks for itself.

**THE VALUE OF NETWORKS**

Your choice of IT network and structured cabling partner is also important; successful projects call for an experienced IT solutions provider. At Honeywell we have embraced it and the internet – the point of convergence – and, for ten years, we have been a leader in direct connectivity of our control systems to TCP/IP. Our practice of bringing building management and IT systems together adds significant value to the delivery of intelligent solutions.

“We also work alongside a number of suppliers including Hewlett Packard and CISCO, worldwide leaders in Internet Protocol (IP) Networking solutions and wireless IP communications to deliver our integrated technologies.”

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Honeywell: delivering measurable value to customers around the world.

Fire detection is a serious business; in today's world there are few investments more important. You need a partner with the background to understand changing government legislation and the environment in which you operate. You need a long-term partner with the vision to match your own.

As one of the world's largest fire companies, Honeywell Building Solutions (HBS) offers unrivalled expertise. And our credentials are impressive. With more than 40 years experience in the fire business, Honeywell customers around the world get the backing of a $37 billion global technology leader with service support from one of the largest customer service organisations known to the industry. Our project management skills also set standards others try to emulate.

Through project design and delivery to technically advanced service capabilities, we aim to reduce your financial and operational risk at all stages. We will help you to reach the right solution for both your current and future needs and reap a higher return on investment.

Project design:
- Inventive and skilled approach ensures effective and efficient operation over the life cycle of a facility
- Our systems have defined migration paths and, being open in design, do not tie you into a single proprietary provider or solution
- The ability to integrate our network and building solutions delivers improved functionality and cost reduction

Project management:
- Global expertise across a wide range of applications
- Projects run to time and budget
- Single team approach maintains strong relationships and combines with good communication for early project mobilisation and efficient resource planning
- Technical compliance assured

Delivery:
- Comprehensive and flexible approach for on-time installation
- Superior levels of technical compliance
- Off-site 'staging' onto a live network minimises on-site integration issues

Commissioning:
- Controls risk when at its greatest
- Track record of early completion within programme
- Demonstrable specification compliance
- Phased hand-over with zero defects

Operation and service:
- Remote monitoring
- Highly skilled and experienced service engineers
- Responsive service and repairs supports efficient and uninterrupted building performance