

# IMPROVE WORKER SAFETY PROTECT YOUR PERSONNEL

Employ a proven, scalable, multi-use industrial  
real-time location solution

---

Honeywell Safety Watch

---



**Honeywell**

# SAFETY AND PRODUCTIVITY: YOUR HIGHEST PRIORITY

Honeywell Safety Watch, a Real-Time Location Solution (RTLS), helps you do more in the safest and most productive way possible. The RTLS system protects your plant's most valuable asset – the industrial workforce – while improving the overall effectiveness of personnel in the field.

Historically, disparate systems and manual processes have challenged real-time access to information on industrial personnel and other assets. Restricted availability of this information can potentially lead to serious incidents and legal consequences. Honeywell has the right solution to help you protect your valuable personnel and assets while boosting productivity. Based on a proven industrial wireless infrastructure, Honeywell Safety Watch is specifically designed for the demands of modern industrial plants. This integrated system provides best-in-class features such as:

- Longer tag battery life
- Extended transmission range
- Higher location accuracy
- Intuitive user interface that does more than real-time location
- Business rule engine enabling creation of rules for safety and security



# ENHANCE YOUR OVERALL OPERATIONAL EFFECTIVENESS

As part of the Honeywell safety portfolio, which includes Process, Personnel and Plant safety, the RTLS offering is focused on three key considerations for all plant operators.



## IMPROVED SAFETY

During emergency situations, Honeywell Safety Watch offers an automated solution for faster mustering, reducing the mustering time from hours to minutes. Safety Watch enables tracking of non-mustered workers and location of key emergency support staff, enabling faster search and rescue during an emergency. With location and real-time data, the system can enable the enforcement of safety rules like maximum work hours and time-based fatigue rules.



## BETTER RETURN ON INVESTMENT

The Honeywell solution enables industrial organizations to obtain actionable information from real-time location of workers and key assets to boost worker safety, security, productivity and improve overall operational efficiency. The multiuse wireless infrastructure enables you to use wireless instrumentation along with RTLS enabling increased value for their investment.



## ENHANCED PRODUCTIVITY

Honeywell Safety Watch also helps to identify and reduce movement bottlenecks, enabling workers to spend productive time at the work location. For the billable contract workforce on site, it supports a streamlined method for calculating actual on-site work hours and billed work hours reconciliation. Furthermore, it allows plant managers to better direct personnel towards assigned tasks with efficient resource allocation and management.



# LEVERAGE HONEYWELL'S UNIQUE INDUSTRIAL WIRELESS SOLUTION

The RTLS system employs Honeywell's proven OneWireless™ multi-protocol wireless mesh network infrastructure, the only solution of its kind that works with all major industrial wireless standards. Honeywell offers a turnkey solution with hazardous and safe area certified personal and asset tags, wireless network hardware infrastructure, and an on-prem software platform.

Honeywell Safety Watch provides unmatched flexibility and freedom of choice in terms of network size, number of devices and location of land points in the field, along with lower hardware and installation costs.

Capabilities of the solution include:

- eMustering
- Fatigue monitoring (minimum break rule monitoring)
- Worker location tracking during emergencies
- Automatic sign in/out at site entry/exit points
- Tracking unauthorized movement in restricted areas
- Tracking & finding critical asset
- Tracking worker time on site



# IMPROVE YOUR RETURN ON TECHNOLOGY INVESTMENTS

With increased insights into plant operations you can increase your safety, security and productivity by effectively managing your workforce and assets. Honeywell's solution provides unified infrastructure and visualization that can be leveraged for multiple applications, reducing overall cost of ownership.

Leading industrial organizations have found that Honeywell Safety Watch meets all the requirements for use in critical industrial manufacturing facilities.

**Robust and reliable:** Honeywell's solution meets the needs of industrial sites by employing explosion-proof or hazardous area wireless receivers and tags – not repurposed, less capable, commercially-oriented hardware. In addition, the disposable batteries for RTLS tags can be easily replaced on a periodic basis without the need for frequent recharging.

**Scalable and cost-effective:** Employing Honeywell's flexible OneWireless mesh network, Honeywell Safety Watch offers a larger area of coverage with a lower hardware footprint. It also helps reduce initial deployment costs and maintenance expenses. The system can be scaled as needed to add more tags or anchors to increase the coverage area.

## HONEYWELL SAFETY WATCH HELPING YOU DO MORE IN THE SAFEST WAY POSSIBLE

- Reduce mustering time by 80% compared to manual approaches
- Enable faster search and rescue during emergencies
- Implement real-time monitoring for better safety and policy compliance
- Improve security by tracking restricted area movements
- Optimize safety rules compliance monitoring and enforcement
- Enhance safety and resource management during plant shutdowns
- Improve tagged asset location and inventory reporting
- Reduce unproductive time and delays
- Avoid overbilling and increase contract workforce efficiency

# LEVERAGE REAL-TIME DATA TO IMPROVE WORKFORCE SAFETY AND PRODUCTIVITY

Honeywell Safety Watch is the solution your industrial organization needs to accelerate continuous operational improvement initiatives and boost workplace safety and security. With Honeywell Safety Watch, you can gain new insights on personnel and asset movements and allocation of resources in real-time throughout the facility. Employees can feel safe knowing they can be tracked during an emergency. Location data is presented to decision-makers to enable more intelligent safety, emergency evacuation, and productivity improvements on site.

# HONEYWELL SAFETY WATCH RTLS FIELD DEVICE ACCESS POINT FDAP32

## HONEYWELL SAFETY WATCH RTLS NETWORK OVERVIEW

The Honeywell Safety Watch, Real Time Location System Solution (RTLS), is designed to work on the Honeywell OneWireless Industrial wireless mesh network. The FDAP32 is one of the components of the OneWireless Network, and it is capable of simultaneously supporting wireless field instrumentation (ISA100 Wireless\* - IEC 62734/WirelessHART - IEC 62591) and Real Time Location for People and Assets in the field.

The OneWireless network is comprised primarily of the following interconnected elements: Field Device Access Point (FDAP), and the Wireless Device Manager (WDM). The Process Control Access Point (PCAP) and a Cisco Wireless LAN Controller can be added to the OneWireless network topology to enable Wi-Fi connectivity.

The FDAP is the Field Radio of the wireless network solution. It provides the connectivity to the Wireless Transmitters and detect the location of the RTLS Tags for the Honeywell Safety Watch Real Time Location System. The WDM acts as the Gateway and Security Manager that take the information from the wireless field Instrumentation and the location of the RTLS Tags to the Distributed Control System (DCS) and the Honeywell Safety Watch RTLS System.

The FDAP32 is a multi-protocol industrial mesh network access points that provides secure and reliable wireless coverage for RTLS TAGs using ISA100 Industrial Wireless. The FDAP32 uses an advanced spatial diversity techniques to mitigate multi-path-induced communication problems found in typical industrial environments, and thereby improve communication reliability and increase effective range.

The FDAP32 self-discovers and forms an IEEE 802.15.4 -based wireless mesh network that routes data to and from ISA100 Wireless and/or WirelessHART field instruments, RTLS TAGs, and process control applications.



*Honeywell Field Device Access Point FDAP32  
w/Surge Arrestors Class 1/Div. 2, Zone 2  
Certified (FDAP32)*

# HONEYWELL SAFETY WATCH RTLS TAG

## RTLS TAG OVERVIEW

Honeywell Safety Watch RTLS TAG is a battery powered ISA100 Wireless (IEC 62734) radio device designed to provide Real Time Location Data to improve worker safety and protect work force personnel. The Honeywell Safety Watch RTLS TAG transmit the Location information of Personnel and Assets to the Honeywell Safety Watch Interface connecting to the Honeywell OneWireless Industrial wireless mesh network.

## KEY BENEFITS

- Transmit Real Time Location to control room operator/HSE Supervisor.
- Operates on ISA100 Wireless (IEC 62734)
- Shares same Industrial Wireless Infrastructure as Field Wireless Transmitters.
- Hazardous Certification : Zone1 & Zone 2 ( ATEX, IECx).
- Long battery life\*.
- Compact – Compatible with existing Access Cards.
- Improve safety, productivity, and efficiency.



\* Battery life will depend on location reporting rate.

## WHY HONEYWELL?

Honeywell's proven products and solutions allow customers to monitor and control their plant operations for optimal overall performance. Honeywell also integrates comprehensive project execution methodologies with local resources, delivering expert product service and maintenance, as well as immediate spare parts availability. Our proactive lifecycle support services help crucial assets remain accurate and reliable while avoiding potential failures and associated downtime.

### For more information

To discover how Honeywell Safety Watch can help you enhance safety, security, and productivity, visit <https://hwl.co/RTLS> or contact your Honeywell account manager.

### Honeywell Process Solutions

101 CityWest Blvd, Building 1  
Houston, TX 77042 US

Honeywell House, Skimped Hill Lane  
Bracknell, Berkshire, England RG12 1EB UK

Building #1, 555 Huanke Road,  
Zhangjiang Hi-Tech Industrial Park,  
Pudong New Area, Shanghai 201203

[process.honeywell.com](https://process.honeywell.com)

BRO-22-93-EN | 11/22  
© 2022 Honeywell International Inc.

**THE  
FUTURE  
IS  
WHAT  
WE  
MAKE IT**

**Honeywell**