CONNECTED ASSETS: OUTBOUND SORTATION





MAXIMIZE PROFITABILITY

To meet throughput targets and maximize profits, DC operators must minimize unplanned downtime, reduce bottlenecks, and remove barriers to labor and equipment utilization.

LIMIT UNPLANNED DOWNTIME

Sortation system downtime can cost an operation more than $10,000 per hour. When you consider the costs of overtime, reallocated and idle workers, shipping and truck expenses, they all quickly add up. And while the clock is ticking, your cost per case shipped continues to rise and your hard-earned consumer loyalty is also on the line.

TAKE CONTROL OF YOUR SORTATION SYSTEM

Connected Assets by Honeywell Intelligrated builds upon The Connected Distribution Center infrastructure to help DC operators keep critical sortation systems running at peak productivity levels. Utilizing the industrial internet of things (IIoT) technologies, Connected Assets continuously accumulates data on equipment and system health to give you real-time statuses and historical insights into your sortation system's overall performance.

CONNECTED ASSETS BENEFITS

Connected Assets detects equipment degradation and process inefficiencies to help you identify fault conditions that could limit productivity or threaten uptime. With Connected Assets, you can:

- Receive real-time notifications of issues affecting an asset or process
- Uncover hidden areas of utilization
- View current system status and historical data trends for accurate forecasting
- Preempt and predict unplanned downtime

Honeywell Intelligrated

INTUITIVE SOFTWARE SUITE



Pulse mobile app



Uniformance Asset Sentinel



Uniformance Insight

Connected Assets utilizes a proven software suite to meet the needs of today's DCs.

Pulse™ mobile app

- Push alerts and triage issues
- Collaborate with peers
- Ensure process compliance

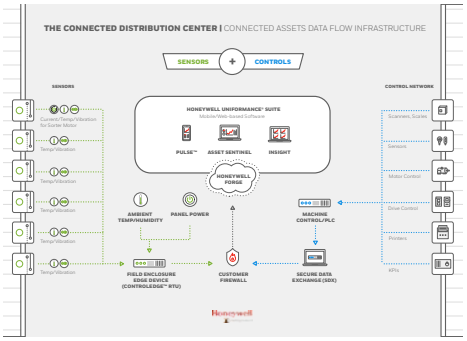
Uniformance® Asset Sentinel

- Define performance and asset condition parameters
- View live performance and asset health dashboards
- Investigate root cause analysis from remote locations
- Make informed decisions based on trending data and repetitive process errors

Uniformance Insight

- Access historic trends on asset condition and system performance
- Dive deeper into root cause analysis and pinpoint problems
- Take actions based on long-term trends and historical insights
- Export data for documentation and reporting purposes

CONNECTED ARCHITECTURE



Sensors

Add machine-level sensors on key points of your sortation system to monitor equipment health and trending performance insights, such as:

- Motor gearboxes — temperature and vibration
- Control panel — voltage, amperage and electricity consumed per case shipped
- Facility temperature and humidity — facility baselines

Connected control systems and machine-level sensors combine to provide insights into your sortation system's real-time and historic trends.

Control System

Connected Assets starts by connecting sortation machine control systems to extract operational data. This gives you access to performance dashboards to monitor sortation system and sub-system statuses, including:

- Merge rates, lane flow balancing
- Scanner read rates, recirculation rates
- Downtime, throughput
- Asset utilization
- Trending graphs for intuitive system visualization

DETECT. PREEMPT. PREDICT.

Connected Assets provides the actionable insights to help you preempt and predict equipment failure and remove throughput barriers. DC operators are notified in real time when an asset exceeds its defined condition thresholds. Powerful software enables you to pinpoint asset, system and process issues, while helping you visualize historic performance trends.

THE FUTURE IS WHAT WE MAKE IT

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