



RECON™

Sensor-Based Monitoring System that
Enables Condition-Based Maintenance

Introducing the Next Evolution in Condition-Based Maintenance

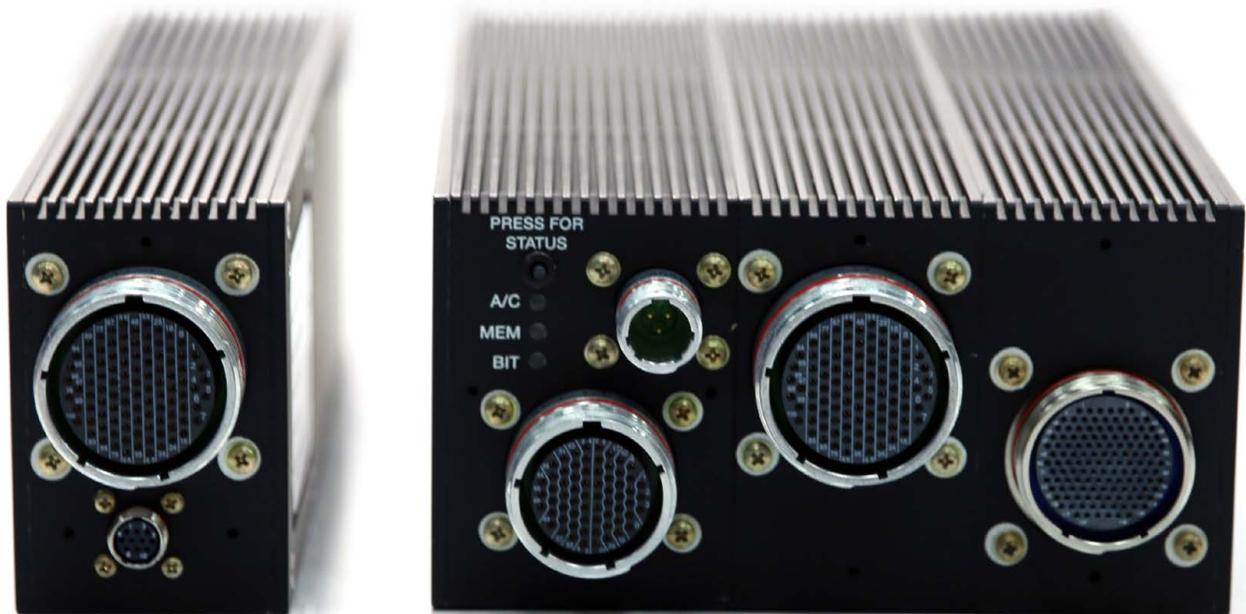
Honeywell is introducing the next-generation in Health Usage and Monitoring System (HUMS). Codenamed RECON™ the system is designed to help commercial and military helicopter operators increase safety, operational availability and reliability while reducing operational and maintenance costs.

On-board HUMS is a sensor-based monitoring system that measures the health and performance of mission-critical components in an aircraft. By monitoring vibration at numerous points throughout the drivetrain, and pinpointing mechanical faults before they become failures, HUMS provides actionable information that helps operators make informed maintenance decisions. Now RECON is enabling the next evolution in condition-based maintenance.

Unprecedented Speed

The RECON™ system is built from the mission-proven Honeywell HUMS family of products and takes performance to a whole new level. The system provides complete inflight drivetrain data acquisition, data processing and drivetrain diagnostics for complex aircrafts, and does so eight times faster than its predecessor systems. This reduces flight-test data acquisition time by 85%. RECON also provides operators HUMS data where and when they need it – inflight, post-flight, in the hangar and at an enterprise level.

This boost in performance enables reduced flight-test time or provides the opportunity for significantly increased data collection in the same time period. RECON builds upon the 30+ year proven track record in the field with Honeywell's HUMS offerings, with a demonstrated performance for customers, enabling 30% reduction in flight cancellations, 20% reduction in test flights, and 5-10% reduction in scheduled maintenance.





A Hardware Solution That's Scalable and Flexible

With RECON it's not a one size fits all solution. The scalable and modular solution consists of a power supply module, vibration processing module and a bus/parametric processing module. Each module incorporates internal acquisition and processing hardware so adding modules does not increase the burden at the system level.

As a result, operators get a solution that can be scaled to fit different platform and program needs. The Honeywell RECON system contains software developed in compliance with DO-178C and certified to Design Assurance Level (DAL) D, reducing platform development and acquisition costs. In the era of crowdsourcing and open architecture, RECON is designed with the capability to host third-party algorithms, with ample processing power to handle it. This allows its analytics capabilities to expand even beyond the high level that Honeywell can provide today. This means for operators and OEMs; the sky's the limit.

Reporting for Upgrade

The Honeywell HUMS product family provides a common hardware and software environment across various applications and platform systems, which means it's an easy upgrade from previous generations of Honeywell HUMS systems. RECON is easily optimized to fit any application with advanced software design and allows for rapid and streamlined aircraft specific customization. Furthermore, decades of HUMS experience have taught us that HUMS processing demands typically expand over time, so RECON is powered to address customers' ever-evolving HUMS needs and evolve with them.

Key Features

- Unprecedented acquisition and processing speed built on a pedigree of successful HUMS systems
- Proven advanced rotor track and balance
- Proven ground system, server tools, and data services to optimize aircraft uptime
- CAP-753 compliant
- JAR-OPS 3 compliant
- Enables and supports – CAP-739



BY THE NUMBERS



REDUCE IN-FLIGHT CANCELLATIONS BY UP TO 30%



REDUCE TEST FLIGHTS BY UP TO 20%



CUT DOWN ON SCHEDULED MAINTENANCE BY UP TO 10%



FASTER THAN ITS PREDECESSOR SYSTEMS

Find out more

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