HUMS FACT SHEET ATTENTION CUSTOMER BUSINESS MANAGERS,

ATTENTION CUSTOMER BUSINESS MANAGERS, AUTHORIZED DISTRIBUTORS, & OPERATORS



STC No.: SR01970NY-D		Agusta A109
STC Holder: Honeywell International Inc 23500 W. 105th Street Olathe, KS 66061		
STC Issue Date:	2005 AUG	
STC Reissue Date:	2009 JUN	
Applicable to:	A109E	
HUMS Model:	VXP HUMS	

NOTE:

SUMMARY:

Honeywell has developed an automated vibration monitoring system for the Agusta A109 helicopter. The VXP Kit provides the Agusta A109 Helicopter a comprehensive rotor, engine and drive train system vibration monitoring capability.

The VXP Kit is designed to conduct routine vibration management functions, with no changes required in the mandatory maintenance functions of the maintenance manual. The system utilizes its vibration monitoring capability to make discretionary rotor and balance adjustments. No pilot interface is required during flight operations. The Rotor Track & Balance (RT&B) solution generated on-board and downloaded to the PC ground station for display to the maintenance personnel.

The on-board system automatically acquires and processes sensor data, continuously monitors realtime condition and health indices, records aircraft intelligent information and saves data for post-flight analysis in the ground station. The systems provides:

- Rotor Track & Balance solution
- Engine and drive train vibration monitoring
- Real time, continuous monitoring of engine and dynamic component health and usage without human intervention
- Operational usage accumulation and recording
- Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment

Software provided with the ground station assists maintenance personnel to perform aircraft maintenance and troubleshooting. For QA personnel, the software allows the review of the aircraft condition and health status, perform analysis, trending, and analysis to generate maintenance action (work order).

Operators are utilizing the information from the VXP to enhance safety, reduce maintenance costs, and increase aircraft availability.

Attention Customer Business Managers, Authorized Distributors, & Operators



Agusta A109 STC No.: SR01970NY-D MAJOR COMPONENT PART NUMBERS: Qty Part Number Description 915-17218 A109 Installation Kit 1 VXP Display Unit 901-17330 1 **Optical Tracker** 901-11800-3 1 Tracker Bracket (A-109 A/A11/C/K/MAX) 904-15267 1 903-13420 1 Tracker Bracket (A-109 A/A11/C/BA/MAX/K) 906-16595 Tracker Bracket Main Rotor 1 SENSORS: 20 Vibration accelerometers and 2 Tachometers/Photocells as shown below. **INSTALL LOCATIONS:** RANGER BEARING No Acceleroheter HANGER BEARING No. 2 Accelerometer HANGER Nos. 4.5,5 AND 7 BEARING ACCELLERCHETERS OIL COLLER FAN SUPPORT ACCELERONETERS RANGER BEARING No. ACCELERCHETER TURBINE ACCELEROMETERS NATH ROTOR PLOXUP MAIN ROTOR TRANSMISSION ACCELEROMETERS TALL ROTOR HAG. PICKUP DU PANEL Installation OPTICAL T CONNECTOR TRADES TAN, ROTOR DEARBOX ACCELERONETERS TALL HAIN DISCONDECT INSTALLATION VXP PROCESSOR ۵) ENGINE FIRE VALL CONNECTOR CEOKPUT VELOCIMETERS OPTIONS:

For technical support and additional information, please contact:

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