


# HUMS FACT SHEET

ATTENTION CUSTOMER BUSINESS MANAGERS,  
AUTHORIZED DISTRIBUTORS, & OPERATORS



STC No.: <b>SR01591NY-D</b>		<b>Bell 412</b>
STC Holder: Honeywell International Inc 23500 W. 105th Street Olathe, KS 66061		
STC Issue Date:	2003 JULY	
STC Reissue Date:	2009 JUNE	
Applicable to:	412, 412CF, 412EP	
HUMS Model:	VXP HUMS	
<b>NOTE:</b> Data contained within this Factsheet is applicable to the Bell 412-41 and 412-50 configurations.		
<b>SUMMARY:</b> Honeywell has developed an automated vibration monitoring system for the Bell 412 helicopter. The VXP Kit provides the Bell Model 412 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 BHT 412 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 real-time condition and health indices, records aircraft intelligent information and saves data for post-flight analysis in the ground station. The systems provides: <ul style="list-style-type: none"><li>• Rotor Track &amp; Balance solution</li><li>• Engine and drive train vibration monitoring</li><li>• Real time, continuous monitoring of engine and dynamic component health and usage without human intervention</li><li>• Operational usage accumulation and recording</li><li>• Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment</li></ul> 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.		

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<b>MAJOR COMPONENT PART NUMBERS:</b>																		
<table><tr><th>Part Number</th><th>Qty</th><th>Description</th></tr><tr><td>915-16174</td><td>1</td><td>B412 Installation Kit</td></tr><tr><td>915-16176</td><td>1</td><td>B412 Application Kit</td></tr><tr><td>901-17330</td><td>1</td><td>VXP Display Unit</td></tr><tr><td>901-11800-3</td><td>1</td><td>Optical Tracker</td></tr><tr><td>903-15560</td><td>1</td><td>Tracker Bracket</td></tr></table>	Part Number	Qty	Description	915-16174	1	B412 Installation Kit	915-16176	1	B412 Application Kit	901-17330	1	VXP Display Unit	901-11800-3	1	Optical Tracker	903-15560	1	Tracker Bracket
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<b>SENSORS:</b>																		
16 Vibration Accelerometers and 3 Tachometers/Photocells as shown below.																		
<b>INSTALL LOCATIONS:</b>																		
<b>OPTIONS:</b>																		

For technical support and additional information, please contact:

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