

# HUMS FACT SHEET

ATTENTION CUSTOMER BUSINESS MANAGERS,  
AUTHORIZED DISTRIBUTORS, & OPERATORS

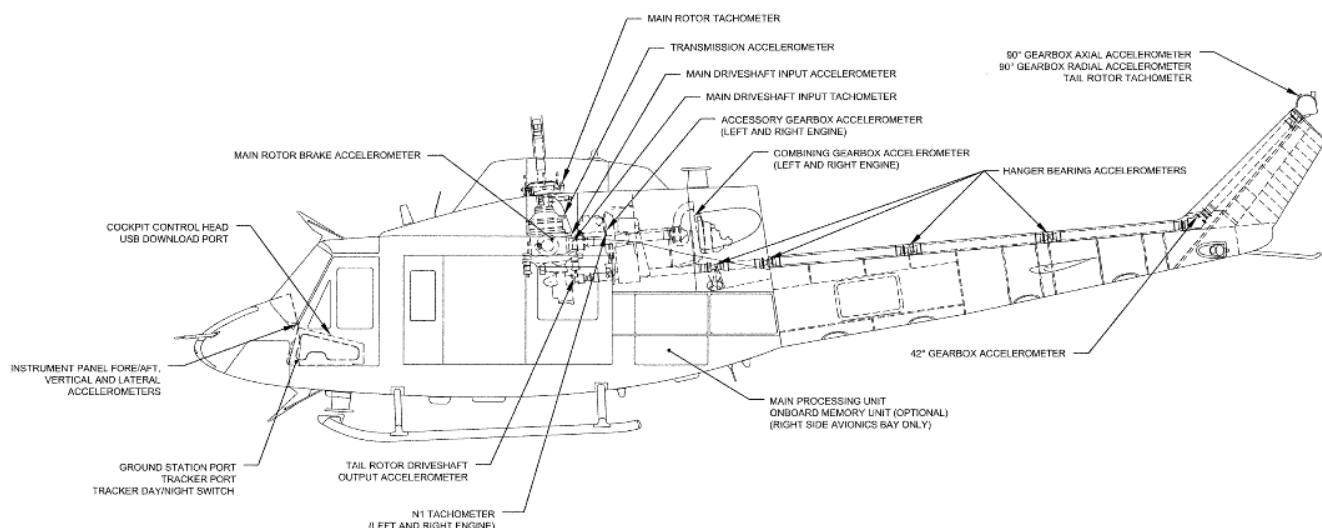


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|--|---|
| STC No.: <b>SR09373RC-D</b>  | <b>Bell 412</b>   |
| STC Holder:<br>Aeronautical Accessories Inc<br>Bell Helicopter Textron Inc<br>441 Industrial Park Rd.<br>Piney Flats, TN 37686 |   |
| STC Issue Date:  | 2005 JUN  |
| STC Reissue Date:  |   |
| Applicable to:   | B412, B412EP  |
| HUMS Model:  | 1209 HUMS   |
| NOTE:  |   |
| SUMMARY:   | <p>System sold exclusively via Bell's Aeronautical Accessories Inc at 1-800-251-7094 or <a href="mailto:sales@aero-access.com">sales@aero-access.com</a> or <a href="http://www.aero-access.com/catalog">www.aero-access.com/catalog</a></p> <p>The Bell Helicopter Vibration Monitor (BHVM) Kit and Altair Engine Trend Monitor System provide drive train health and engine monitoring to improve aircraft serviceability and maintainability between regularly scheduled inspections and overhaul periods. A control head located in the pedestal provides the primary flight crew interface to the BHVM. A pedestal mounted USB port allows the flight crew to transfer data between the aircraft and a PC-based ground support station. An Ethernet connection provides means for maintenance personnel to connect to the ground support station. BHVM diagnostics facilitate vibration-related maintenance functions such as main rotor track and balance, tail rotor balancing, main input drive shaft balancing and tuning of the instrument panel Frahm absorber. Enhanced vibration diagnostics allow maintenance personnel to detect faults within the main rotor system, tail rotor drive system, engine accessory gearbox and combining gearbox. Built in test features simplify system troubleshooting.</p> <p>The BHVM Kit uses the Honeywell Model 1209 Main Signal Processing Unit (MSPU), a Cockpit Control Head (CCH), sensors including accelerometers and tachometers, and a PC based ground station. Honeywell's PC-GBS software is used for storage of data received from the airborne system, analyzes the data to determine if defined limits have been exceeded, annunciates exceedances, and specifies corrective maintenance actions (either self-generated or via references to approved maintenance manuals).</p> |



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| STC No.: <b>SR09373RC-D</b>  | <b>Bell 412</b> |
| <b>MAJOR COMPONENT PART NUMBERS:</b>   |                 |
| Aeronautical Accessories Inc. Part Numbers:  |                 |
| 412-262-003      Bell 412 (BHVM) Kit w/Smart Cycle for a/c S/N 33001-33213 and 36001-36019<br>412-262-004      Bell 412, 412EP (BHVM) Kit w/Smart Cycle for a/c S/N 36020 and subsequent<br>412-261-0004      USB Memory Unit Kit<br>412-261-0005      Off Aircraft Ground Kit |                 |
| <b>SENSORS:</b><br>18 Vibration Accelerometers and 4 Tachometers/Photocells as shown below.<br>Sensors are provided by AAI.  |                 |
| <b>INSTALL LOCATIONS:</b><br>   |                 |
| <b>OPTIONS:</b>  |                 |

For technical support and additional information, please contact:

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