

HUMS FACT SHEET

ATTENTION CUSTOMER BUSINESS MANAGERS,
AUTHORIZED DISTRIBUTORS, & OPERATORS



| | | |
|---|-----------|--|
| STC No.: SR02709NY | | Agusta A109 |
| STC Holder: Agusta Aerospace Corp 3050 Red Lion Road Philadelphia, PA 19914 | |  |
| STC Issue Date: | 2009 JULY | |
| STC Reissue Date: | | |
| Applicable to: | A109E | |
| HUMS Model: | EVXP HUMS | |
| NOTE: | | |
| SUMMARY: <p>This STC allows for the replacement of the Honeywell VXP installed under STC SR01970NY-D with Honeywell's Enhanced VXP (EVXP). The EVXP provides the Agusta A109 Helicopter a comprehensive rotor, engine and drive train system vibration monitoring capability.</p> <p>Functions include:</p> <ul style="list-style-type: none">• Main and Tail Rotor Track & Balance solution• Data Management• Real time, continuous monitoring of engine and dynamic component health and usage without human intervention• Operational usage accumulation and Helicopter Operational Monitoring Program (HOMP) parameters recording• Advanced gearbox diagnostics• Auto triggered acquisition using regime recognizer• Operational usage recorded for: engine and air data parameter recording, engine cycle counters, engine start/stops, engine time, takeoff and landings, and rotor on time• Integrated and automated aircraft maintenance functions to eliminate the need for ground support equipment <p>The EVXP allows for the collection of parameters from the aircraft's ARINC 429 data bus. The EVXP also interfaces to the automatic flight control system, air data and attitude systems, instrument display system, and the digital engine controls.</p> <p>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).</p> <p>Operators are utilizing the information from the VXP to enhance safety, reduce maintenance costs, and increase aircraft availability.</p> | | |

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|--|--------------------|-----------------------------|-------------|-----------|---|-----------------------------|--|
| MAJOR COMPONENT PART NUMBERS: | | | | | | | |
| <table border="1"><thead><tr><th>Part Number</th><th>Qty</th><th>Description</th></tr></thead><tbody><tr><td>901-17700</td><td>1</td><td>A109E EVXP Installation Kit</td></tr></tbody></table> | Part Number | Qty | Description | 901-17700 | 1 | A109E EVXP Installation Kit | |
| Part Number | Qty | Description | | | | | |
| 901-17700 | 1 | A109E EVXP Installation Kit | | | | | |
| SENSORS: | | | | | | | |
| 20 Vibration Accelerometers and 2 Tachometers/Photocells as shown below | | | | | | | |
| INSTALL LOCATIONS: | | | | | | | |
| | | | | | | | |
| OPTIONS: | | | | | | | |

For technical support and additional information, please contact:

Brian C. Hatcher
Phone: (909) 930-3600 Ext. 222
Cell: +1-949-690-2914
brian.hatcher@dsi-hums.com

Neil Seamon
Phone: (909) 930-3600 Ext. 228
Cell: +1-949-232-3760
neil.seamon@dsi-hums.com