


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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STC No.: SR02709NY	Agusta A109						
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:							
A detailed line drawing of an Agusta A109 helicopter from a side profile. Various components are labeled with leader lines pointing to their locations on the aircraft. The labels include: OIL COOLER FAN SUPPORT ACCELEROMETERS, MAIN ROTOR TRANSMISSION ACCELEROMETERS, DU PANEL INSTALLATION, OPTICAL TRACKER CONNECTOR BRACKET, COCKPIT VELOCIMETERS, MAIN ROTOR MAGNETIC PICKUP, TURBINE ACCELEROMETERS, HANGER BEARING No. 1 ACCELEROMETER, HANGER BEARING No. 2 ACCELEROMETER, HANGER BEARING No. 3 ACCELEROMETER, HANGER Nos. 4, 5, 6 AND 7 BEARING ACCELEROMETERS, TAIL ROTOR MAG. PICKUP, TAIL ROTOR GEARBOX ACCELEROMETERS, TAIL MAIN DISCONNECT INSTALLATION, VXP PROCESSOR, and ENGINE FIRE WALL CONNECTOR.							
OPTIONS:							

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Document Number 26361 REV A