

# HUMS FACT SHEET

ATTENTION CUSTOMER BUSINESS MANAGERS,  
AUTHORIZED DISTRIBUTORS, & OPERATORS



STC No.: <b>ST15859LA-R</b>	<b>Eurocopter EC145</b>
STC Holder: Diagnostic Solutions International, LLC (DSI) 2580 East Philadelphia Street, Unit C, Ontario, CA 91761	
STC Issue Date:	Ext. 2015 July
STC Reissue Date:	
Applicable to:	BK117 C1 & C2 (EC145 T1)
HUMS Model:	VXP HUMS
NOTE: This STC includes BK117 C1 & C2 and the EC145 T1	
<b>SUMMARY:</b>  Diagnostic Solutions International, LLC has developed a Honeywell automated vibration monitoring system for the Eurocopter BK117/EC145 helicopter. The VXP Kit provides the BK117/EC145 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 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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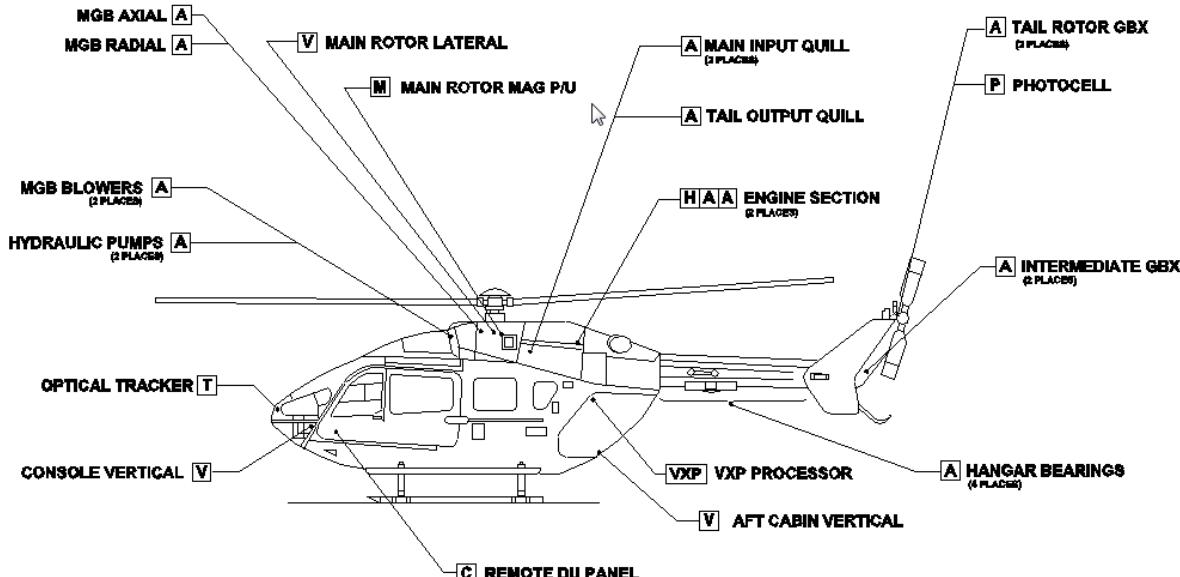
## MAJOR COMPONENT PART NUMBERS:

Part Number	Qty	Description
915-18740	1	KIT, INSTALLATION, VXP ON-BOARD, EC-145
915-18741	1	KIT, GROUND ANCILLARY, VXP ON-BOARD, EC-145
917-18742-02	1	SOFTWARE EC-145 VXP ONBOARD

## SENSORS:

26 Vibration Accelerometers/Velocimeters, 1 Magnetic Pickup (M/R Tach), 1 Optical Tracker, 1 Photocell and Provisional Wiring for Sky Connect Tracker III as shown below.

## INSTALL LOCATIONS:



## OPTIONS:

For technical support and additional information, please contact:

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