AUAV EVALUATION BOARD USER GUIDE PART NUMBER: EK-AUAV01

Thank you for purchasing the Amphenol All Sensors AUAV Evaluation Board (EK-AUAV01) to assist with testing of our high-performance AUAV series of dual-channel pressure sensors in your design. The EK-AUAV01 simplifies the evaluation process, allowing you to unlock the full potential of our advanced sensor technology.

INSTALLATION

1	Download the latest PC software (Windows 10 or later is required).	https://allsensors.com/news/auav-evaluation			
2	Run the downloaded installer file: AUAVEval_MS077_nnn.exe (nnn is version, which may vary.)	AUAYEval_ MS077_737. exe			
3	Choose a folder for extracting the program files. The installer will create folders as needed.	O 7-Zip self-extracting archive - AALS × Extract to: D:\AUAVTest\EvalProgram Extract Cancel			
4	The following files will be extracted: This folder may be moved, but all files must remain together in the same folder for correct operation.	> DataVol (D:) > AUAVTest > EvalProgram Se Image: Set of the set o			
5	Connect the EK-AUAV01 board to a PC USB port, using an A-to-MicroB cable (provided in this kit). After connecting the EKAUAV01 board the idle screen will show.	Image: A and a grade of the second of the			

STANDALONE OPERATIONS



RECORDING DATA USING THE PC SOFTWARE

For data acquisition testing, the software provides an effortless way to collect CSV data for analysis.

1	From the folder containing the extracted software files, run AUAV_Eval.exe:	AUAV_Eval.exe	
2	If the board is already connected, the COM port will be identified and shown on the top-right of the form. If the board is <i>not</i> connected, a dialog will prompt a rescan after software starts. After connecting the board, wait a few seconds for the board to initialize and show the idle screen. Then, clicking <i>Rescan</i> will connect to the board, and status will be updated to 'OK' as shown.	Board not detected: X Presse connect AUAV Eval Board to USB port. OK OK OK Board not detected. Rescan Rescan Rescan MADAV Evaluation X All Sensors AUAV OMS: OK Start Reading ID Part Selected part: Selected part: Selected part: P Range:	
3	To display pressure in units correctly, the sensor and its calibrated range must be identified. Click <i>ID Part</i> to check the installed part; the full part number will be displayed: Now the <i>Start Reading</i> button is enabled, allowing a check of the test setup. Adjust the <i>Read Interval</i> and <i>Test Duration</i> as needed; the test can be cut short with the Stop button. After <i>Start Reading</i> is clicked, sensor output is shown, along with remaining time in the test. The <i>Show Counts</i> checkbox toggles the display of native sensor output in counts:	All Sensors AUAV Selected pat: AUAV Evaluation Selected pat: AUAV-10D-M25125-RR-N DP Range: 10 b 10 inH20 AP Range: 250 to 1250 mbA <filename not="" set=""> Set Filename Set Filename Seve to File DP Range: -10 to 10 inH20 AVAV-L10D-M25125-RR-N DP Range: -10 to 10 inH20 AP Range: 250 to 1250 mbA <filename not="" set=""> Remaining Time: OO:011:08 Read Interval: OP Hrs Show Courts OP Hrs Show Courts OD:01:08 Read Interval: OP Hrs Show Courts OD:04 Hrs OUAP OUAP OUAP OUAP OUAP OUAP OUAP OUAP OUAP</filename></filename>	
4	To save data to CSV file: before starting reading, <i>Set</i> <i>Filename</i> and enter a name in the resulting <i>Save As</i> file dialog:	Start Reading ID Part Set Filename Save to File D:\AUAVTest\Test_1A.csv	
5	With <i>Save to File</i> checked, each sample will be timestamped and saved in the CSV file. Note that repeated tests will be <u>appended</u> to the current file.		
6	To examine the noise-reduction effect of the oversampled- reading commands, select one of the <i>Reading Type</i> radio buttons:	Oversampled Reading Type Single O 2X • 4X O 8X O 16X	

SOFTWARE LICENSING

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GenericParsing License: MIT License Copyright (c) 2019 Andrew Rissing

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