

Date: 21 September 2018
To: Thai Aviation Services Limited
Attention: Colin Inglis
Regarding: Request For HUMS Parametric Data Name Clarification
Technical Case #: C0103035
Aircraft Serial #: 761000

Colin Inglis,

Sikorsky HUMS Engineering states the following,

In regards to S-76D/S-92 parameter names, the HUMS User's Guides historically have listed the Parameters recorded by HUMS and the systems that supply the data. Sikorsky HUMS will provide an update to those lists to Technical Publications for inclusion into the Aircraft Maintenance Manuals / HUMS User's Guides. In the meantime, if the customer sees any parameters that they need to review for any technical issues or other matters and those do not have units, please let us know and we could supply it. See attachment below.

Please note that almost all parameters are from different avionics boxes (ADC, AVC, etc) and the ones without units are mostly frequency signal or bit data.

761000 - C0103035 Request For HUMS Parametric Data Name Clarification



Problem Description:

Reference the attached screen shot of HUMS SGBA parametric data viewer Parameters list (S-76D shown, but S-92 is similar). TAS HUMS department notes that many parameters in the S-76D/S-92 SGBA parametric data viewer have unintuitive names, making it difficult to decipher what they represent. To add to the ambiguity, a number of parameters have scales that lack a Unit of Measure, which also makes interpretation difficult.

TAS requests a list of all S-76D/S-92 parameter names in plain English, as well as Units of Measure for those parameters that do not display defined units.

Sikorsky HUMS Response:

The HUMS User's Guides historically have listed the Parameters recorded by HUMS and the systems that supply the data. Sikorsky HUMS will provide an update to those lists to Technical Publications for inclusion into the Aircraft Maintenance Manuals / HUMS User's Guides. For the screen shot provided in this case, the following is provided as initial response to this Case.

Parameter Name	System	Signal type / units
Z(R5C2)_Real (S76D)	Active Vibration Control (AVC)	AVC frequencies/ no units
160 parameters of this type recorded by HUMS	There are 10 AVC accelerometers	Each of the 10 AVC accelerometers has Real & imaginary components for 8 frequencies
FCM_MOD_COL (S76D)	Vehicle Management Module	Navigation Signal / No units

Sikorsky
6900 Main Street - P.O. Box 9729
Stratford, Connecticut 06497-9129



Regards,

Bradley Dew
Service Engineering
Sikorsky Aircraft
bradley.r.dew@lmco.com
Office (direct): 203-447-7115
Office (24 hr. line): 203-416-4299

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