Technical Note No. TMDG-G-16

Subject	:	Electronic accelerometer as part of the minimum equipment
Effectivity	type:	DG single seaters, DG-500, DG-1000
	variants:	DG-300 ELAN ACRO, DG-300 Club ELAN ACRO, DG-500 ELAN Trainer, DG-500 ELAN ORION, DG-1000S, DG-1000T, DG-1001E

Accomplishment : Optional

Reason : For performing aerobatics Category A an accelerometer is required as part of the min. equipment. This accelerometer must have an approval e.g. according to TSO or ETSO.
Such approved accelerometers are at present not available.
However electronic accelerometers without approval are available on the market. Together with EASA a procedure was developed how to qualify such accelerometers as part of the minimum equipment.
DG chose the electronic accelerometers LXNAV G-meter 57 and LXNAV G-meter 80 for this procedure.
To make the installation acceptable DG has developed the specification I-13-71-A1. LX must produce and deliver the accelerometers according to this specification to DG.
DG checks that each accelerometer, meets the specification and issues a certificate Z-TMDG-G-16. In this certificate DG certifies that this accelerometer may be installed as part of the min. equipment.

Instructions :

1. Install the accelerometer LXNAV G-meter 57 or LXNAV G-meter 80, supplied with a certificate Z-TMDG-G-16 according to the LXNAV G-meter User Manual A circuit breaker (1A) must be installed in line with the 12V power supply.
2. File the certificate in the aircraft logs.
3. Manual revision: Exchange following maintenance manual pages against pages marked with TMDG-G-16 (issued in April 2024). Marked changes must be considered.
   DG-300: 0.1, 0.4, 6.3
   DG-500: 0.1, 0.4, 6.3
   DG-1000S: 0.3, 0.5, 6.3
   DG-1000T: 0.2, 0.5, 6.3
   DG-1001E: 0.2, 0.6, 6.3

Operate the accelerometer according to the LXNAV G-meter User Manual.

Material : Installation kit LXNAV G-meter 57, DG part number **10003802** or
installation kit LXNAV G-meter 80, DG part number **10003803**
each with certificate Z-TMDG-16,
LXNAV G-meter User Manual,
Circuit breaker 1A, DG part number **60510378**.

Weight and balance : LXNAV G-meter 57: 195 g,
LXNAV G-meter 80: 315 g,
plus wiring and circuit breaker, installed in front of glider C.G.

The technical content of this document is approved under the authority of DOA Ref. EASA.21J.780.

Remarks : Instructions may be executed by the pilot/owner himself.
The actions are to be inspected and released by the pilot/owner according to ML.A.801 (b) 3. for EASA registered aircraft.

If you have any questions concerning this TN please contact DG Aviation:
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