

Shinfield Engineering

Worksheet

Job No. 219-10

Subject: Calibration of data logger
Type: Volkslogger 1.0 (Hardware 3.4)
Serial No.: 1RA
Date of test: 16 March 2011

Defect: Unit requires 2 yearly barometric calibration check.

Rectification: Power on self test shows that the internal "seal" is intact.

Test: Carry out barometric scale altitude test using Civil Aviation rules part 43.51(c), appendix D as a guide for pass / fail limits

- (i) Barometric chamber elevated to 35,000 feet and Volkslogger data readout from LCD display noted at appropriate points. Results in feet are as follows:

Error chart

<u>MASTER</u>	<u>LOGGER</u>	<u>ERROR</u>	<u>DESCENDING</u>
0	0	0	
500	500	0	
1000	995	-5	
1500	1500	0	
2000	1995	-5	
3000	2985	-15	
4000	3980	-20	
5000	4980	-20	
6000	5980	-20	
7000	6980	-20	
8000	7985	-15	
9000	8985	-15	
10000	9990	-10	10000
12000	11992	-8	
14000	13995	-5	
16000	16000	0	
18000	18005	5	
20000	20005	+5	20000
25000	24990	-10	
30000	29960	-30	
35000	34930	-60	

Pressure altitude = -16 feet
(Logger error nil)

Temperature = 16.5 degrees

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Loose Leaf Log Entry

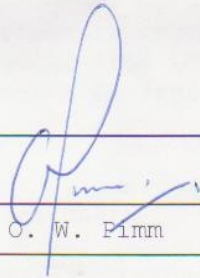
Component:	Digital Data Logger	Aircraft / Component Hours:	Unknown
Aircraft Registration:	Unknown	Aircraft / Component Landings:	Unknown
Part No:	Volkslogger 1.0		
Serial No:	1RA Hardware 3.2		

The following work was carried out

With reference to Worksheet 219-10, the following maintenance has been carried out in accordance with CAR Part 43.51(d)1.

Biannual calibration of the barometric unit of digital data logger, in accordance with CAR Part 43.51(d)1 and 43 Appendix D has been carried out on the instrument identified above.

Certified by:



Printed Name:

O. W. Pimm

NZGA No.: 489/I/A/O

Date: 16 March 2011

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the Volkslogger 1.0 is released to service.

SF002 B

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Notes:

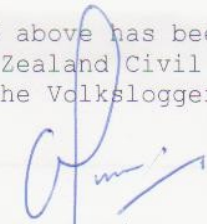
The data logger displayed consistent readings that were within the error limits of the master equipment for a significant part of the test. The Barometric unit of the Volkslogger, has fulfilled the requirements of the NZ Civil Aviation rules for altitude indicating equipment and is considered serviceable.

The QFE was set to -16 feet prior to test, in accordance with the Volkslogger manual. This adjustment is in place of a barometric scale setting one would expect to find on an altimeter.

THIS UNIT IS CONSIDERED SERVICEABLE

The maintenance work recorded above has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the Volkslogger is released to service.

Signature for Shinfield Engineering:



O. W. Pimm

Date: 16/03/11

GNZ authorization: 489/I/A/O