

1. Approving Civil Aviation Authority/Country:
FAA/United States

2.

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:

47115728

4. Organization Name and Address:

SECURAPLANE TECHNOLOGIES, 12350 N VISTOSO PARK RD, ORO VALLEY, AZ 85755 SR0R383N

5. Work Order/Contract/Invoice Number:

RMA-081672

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	WELS CONTROL UNIT	100-2601-02	1	1132997	REPAIRED

12. Remarks: This document constitutes a signed copy of the work order.

CUSTOMER: SR TECHNICS SWITZERLAND LTD.

CORRECTIVE ACTION: The above referenced unit was repair, inspected in accordance with manufacturer's manual # MM-0210-01 Rev 11 (33-50-01) dated 18 Sep 2017 and tested to Acceptance Test Procedure (ATP) # 210-2601-05 rev B dated 25 MAR 2014.
Unit passed all requirements.

Securaplane certifies the work specified in block 11/12 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number: EASA.145.5074

The above referenced unit was manufactured under FAA/PMA authority and has been tested in accordance with Securaplane Acceptance Test Procedure and has passed all requirements
AIRWORTHINESS APPROVAL - PARTS.

14a. ☒ 14 CFR 43.9 Return to Service

☒ Other regulation specified in Block 12
Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

14b. Authorized Signature:

Michael Caruth

14c. Approval/Certificate No.:

SR0R383N

14d. Name (Typed or Printed):

Michael Caruth

14e. Date (dd/mm/yyyy):

17/OCT/2018

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.



12350 N. Vistoso Park Rd. * Oro Valley, AZ 85755
(520) 297-0844 * (520) 425-8257 FAX

PART NUMBER: 100-2601-02
WELLS CONTROL UNIT
PART NAME:

CUSTOMER: A/C OPR CODE: A/C #:

CATEGORY: REPAIR
CUSTOMER REASON FOR RETURN:

COMPONENT MAINTENANCE SPECIFICATION / REV
ENG ORDER: REV DATE:

RECEIVING INSPECTION (PHYSICAL CONDITION): YES NO
SEC. LABEL
UNIT PROTECTED
OTHER DAMAGE

INITIAL FINDINGS:
NO FAULT FOUND
INDUCED FAILURE
CONFIRMED

BATTERIES ARE GREATER THAN 3 YEARS OLD
REPLACEMENT PER CMM IS RECOMMENDED.

CAUSE OF RETURN / FAILURE ANALYSIS SUMMARY:
Unit failed A/C. Failed Bluetooth at Test.

REPLACE Control Board PN-140-2601-03, Mod 2

DATE: 10/9/2018
BATTERY DATE OF MFG: 10/9/2018
INITIAL: AA

RECEIVING INSPECTION NOTES: MOD 1-2 complete

REPAIR

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FAA REPAIR STATION # SROR383N WORK ORDER FORM

WORK ORDER DATE LOGGED IN: 10/9/2018
DATE REC'D: 10/9/2018
RETURN DATE: 10/23/2018
W/IN WARR PERIOD: NO

PART SERIAL NO.: 1132997
AS RECEIVED
MOD NO: 2
SCN: N/A

LAST DATE: 10/2/2015
IN: 10/2/2015
PREVIOUS RETURNS: 1

CATEGORY: REPAIR
CUSTOMER REASON FOR RETURN:

COMPONENT MAINTENANCE SPECIFICATION / REV
ENG ORDER: REV DATE:

RECEIVING INSPECTION (PHYSICAL CONDITION): YES NO
SEC. LABEL
UNIT PROTECTED
OTHER DAMAGE

INITIAL FINDINGS:
NO FAULT FOUND
INDUCED FAILURE
CONFIRMED

BATTERIES ARE GREATER THAN 3 YEARS OLD
REPLACEMENT PER CMM IS RECOMMENDED.

CAUSE OF RETURN / FAILURE ANALYSIS SUMMARY:
Unit was tested and rechecked.

REPLACE Control Board PN-140-2601-03, Mod 2

DATE: 10/9/2018
BATTERY DATE OF MFG: 10/9/2018
INITIAL: AA

RECEIVING INSPECTION NOTES: MOD 1-2 complete

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INCOMING INSPECTION / ADD PARTS

FINAL INSPECTION

STL VMOR0002 GRP

ACCEPTANCE TEST PROCEDURE DATA SHEET - 100-2601-01/02									
Date		10/15/2018		UT P/N		100-2601-02		MOD / Rev	
ATP P/N		210-2601-05		ATP Revision		B		Tested By	
Room Temperature in Celsius		23.0°C		Room Humidity		39%			
WCU Test Fixture P/N		TE-2710-01		S/N		002		Calibration Due Date	
Bluetooth Test Set Model #		CBT 32		S/N		100035		Calibration Due Date	
DMM Model #		N/A		S/N		N/A		Calibration Due Date	
INSTRUCTIONS: Verify that each test either Passes or Fails by checking the appropriate box.									
4.4									
Initializing Event EEPROM/Loading Bluetooth Address and Default Data									
4.4.6									
Verify the data values that were entered were correctly stored in the Event EEPROM. If the results were stored successfully check the "Event EEPROM Initialization Complete" box.									
☒ Event EEPROM Initialization Complete									
4.4.11									
Verify the default data values were correctly stored in the Event EEPROM. If the results were stored successfully check the "Event EEPROM Update Complete" box.									
☒ Event EEPROM Update Complete									
4.5									
Automated Tests									
4.5.5									
Verify the WCU SN, last 4 numbers of the Bluetooth Address, Part Number and the "Initialize/Capture UUT Data" window are correct. If the "Initialize/Capture UUT Data" is correct check the "Verified Initialize/Capture UUT Data" box on the Data Sheet.									
☒ Verified UUT Data									
4.7									
RF Tests									
4.7.17									
Verify that all tests have passed. Record Pass/fail result.									
☒ PASS ☐ FAIL									
4.7.25									
Verify that all tests have passed. Record Pass/fail result.									
☒ PASS ☐ FAIL									
4.8									
Operational Software Load									
4.8.7									
Verify that output voltages remain at 0mV +/-25mV. Record Pass/fail result.									
☒ PASS ☐ FAIL									
4.8.8									
Verify CAN message communication. Record Pass/fail result.									
☒ PASS ☐ FAIL									
4.8.27									
Verify all six outputs are ON. Record Pass/fail result.									
☒ PASS ☐ FAIL									
4.8.29									
Verify all six outputs are OFF. Record Pass/fail result.									
☒ PASS ☐ FAIL									
4.8.31									
Verify all six outputs are ON. Record Pass/fail result.									
☒ PASS ☐ FAIL									
4.8.33									
Verify all six outputs are OFF. Record Pass/fail result.									
☒ PASS ☐ FAIL									
4.8.45									
Record loaded operational software ARINC 665-3 part number.									
SEK54-0258-5300									
4.8.46									
Record loaded operational software checksum (in hexadecimal).									
52 D0 0B A4									

Final

SECURANET™

100-2601-02 TV01

WCU ATP Auto-Test Results

Date/Time

10/15/2018 14:55

Mod Level

002

WCU SN

1132 0997

Part #

100-2601-02

Step	Number	Results	Step	Number	Results
1	31	Pass	1	61	Pass
2	32	Pass	2	62	Pass
3	33	Pass			----
4	34	Pass			
5	35	Pass			
6	36	Pass			
7	37	Pass			
8	38	Pass			
9	39	Pass			
10	40	Pass			
11	41	Pass			
12	42	Pass			
13	43	Pass			
14	44	Pass			
15	45	Pass			
16	46	Pass			
17	47	Pass			
18	48	Pass			
19	49	Pass			
20	50	Pass			
21	51	Pass			
22	52	Pass			
23	53	Pass			
24	54	Pass			
25	55	Pass			
26	56	Pass			
27	57	Pass			
28	58	Pass			
29	59	Pass			
30	60	Pass			

Overall Result

PASS

Review Date

10/15/2018

BT Addr

2A5F

Tester



Securaplane®

TECHNOLOGIES INC

Record File C:\WCU_Test_Data\100-2601-02_1132_0997_181015_1456.xls

Measurement Report

Monday, October 15, 2018 15:16:39 PM

Operator: *noname*
 CBT Ident: *Rohde&Schwarz,CBT32-1153.9000.32,100035,CBT V6.00*
 Options: *0,K53,FMR6,Intel Celeron Mobil,256 MB,DIG FPGA*
 Sequence: *WIRED USER SCRIPT 3*
 Shortcut:

Shortcut:					
Test Name and Condition					
Connection to Device:					
✓					
✓	Average Power	-9.00 dBm	20.00 dBm	-8.74 dBm	
✓	Peak Power		23.00 dBm	-7.50 dBm	
✓	Average Power	-9.00 dBm	20.00 dBm	-6.37 dBm	
✓	Peak Power		23.00 dBm	-5.75 dBm	
✓	Average Power	-9.00 dBm	20.00 dBm	-5.22 dBm	
✓	Peak Power		23.00 dBm	-4.25 dBm	
Max. Frequency Tolerance					
✓		-75.00 kHz	75.00 kHz	22.95 kHz	
✓		-75.00 kHz	75.00 kHz	25.89 kHz	
✓		-75.00 kHz	75.00 kHz	25.54 kHz	
Max. Drift (DH1)					
✓		-40.00 kHz	40.00 kHz	14.92 kHz	
✓		-40.00 kHz	40.00 kHz	16.95 kHz	
✓		-40.00 kHz	40.00 kHz	13.67 kHz	
✓		-20.00 kHz	20.00 kHz	-7.50 kHz	
✓		-20.00 kHz	20.00 kHz	-10.73 kHz	
✓		-20.00 kHz	20.00 kHz	11.28 kHz	
✓		-40.00 kHz	40.00 kHz	15.60 kHz	
✓		-40.00 kHz	40.00 kHz	12.58 kHz	
✓		-40.00 kHz	40.00 kHz	14.37 kHz	
✓		-20.00 kHz	20.00 kHz	-10.54 kHz	
✓		-20.00 kHz	20.00 kHz	9.84 kHz	
✓		-20.00 kHz	20.00 kHz	-11.28 kHz	
✓		-40.00 kHz	40.00 kHz	17.27 kHz	
✓		-40.00 kHz	40.00 kHz	15.41 kHz	
✓		-40.00 kHz	40.00 kHz	16.42 kHz	
✓		-20.00 kHz	20.00 kHz	8.18 kHz	
✓		-20.00 kHz	20.00 kHz	-9.07 kHz	
✓		-20.00 kHz	20.00 kHz	11.27 kHz	
Delta F1 Avg					
✓		140.00 kHz	175.00 kHz	159.34 kHz	
✓		99.00 %		99.99 %	
✓		0.79		0.87	
✓		Delta F2 Avg / Delta F1 Avg			
✓		Delta F1 Avg			
✓		Delta F2 Max Threshold: 115.0 kHz			
✓		Delta F2 Avg / Delta F1 Avg			
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✓		Delta F2 Max Threshold: 115.0 kHz			
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✓		Delta F1 Avg			
✓		Delta F2 Max Threshold: 115.0 kHz			
✓		Delta F2 Avg / Delta F1 Avg			

Measurement Report



ROHDE & SCHWARZ

MS Serial Number: 001559002A5F
Result:
 (Execution Time: 98.1 Seconds)
 54 Tests passed / 0 Tests failed

Test Name and Condition				P/F
Lower Limit	Upper Limit	Measured Value		
BER: *1E-6	1000.00	0.00	✓	✓
PER: *1E-6	30.00 %	0.23 %	✓	
BER: @ Channel: RX: 3, TX: 78, *1E-6	1000.00	0.00	✓	✓
PER: @ Channel: RX: 3, TX: 78	30.00 %	0.18 %	✓	
BER: @ Channel: RX: 39, TX: 0, *1E-6	1000.00	0.00	✓	✓
PER: @ Channel: RX: 39, TX: 0	30.00 %	0.12 %	✓	
BER: @ Channel: RX: 78, TX: 78, *1E-6	1000.00	0.00	✓	✓
PER: @ Channel: RX: 78, TX: 78	30.00 %	0.18 %	✓	
BER: *1E-6	1000.00	0.00	✓	✓
PER: *1E-6	50.00 %	1.01 %	✓	
BER: @ Channel: RX: 3, TX: 78, *1E-6	1000.00	0.00	✓	✓
PER: @ Channel: RX: 3, TX: 78	50.00 %	0.84 %	✓	
BER: @ Channel: RX: 39, TX: 0, *1E-6	1000.00	0.00	✓	✓
PER: @ Channel: RX: 39, TX: 0	50.00 %	1.01 %	✓	
BER: @ Channel: RX: 78, TX: 0, *1E-6	1000.00	0.00	✓	✓
PER: @ Channel: RX: 78, TX: 0	50.00 %	0.67 %	✓	
BER: @ Channel: RX: 78, TX: 0, *1E-6	1000.00	0.00	✓	✓
PER: @ Channel: RX: 78, TX: 0	50.00 %	0.67 %	✓	
Detach device:				✓

Measurement Report

Monday, October 15, 2018 15:22:16 PM

Operator: *noname*
 CBT Ident: *Rohde&Schwarz,CBT32-1153.9000.32,100035,CBT V6.00*
 Options: *0,K53,FMR6,Intel Celeron Mobil,256 MB,DIG FPGA*
 RF FPGA
 Sequence: *UNWIRED USER SCRIPT 10*
 Shortcut:

Test Name and Condition				Connection to Device:	
Max. Frequency Tolerance	-75.00 kHz	75.00 kHz	75.00 kHz	22.78 kHz	✓
Max. Frequency Tolerance	-75.00 kHz	75.00 kHz	75.00 kHz	23.26 kHz	✓
Max. Frequency Tolerance	-75.00 kHz	75.00 kHz	75.00 kHz	27.12 kHz	✓
Max. Drift (DH1)	-40.00 kHz	40.00 kHz	40.00 kHz	-10.66 kHz	✓
Max. Drift (DH3)	-40.00 kHz	40.00 kHz	40.00 kHz	13.04 kHz	✓
Max. Drift (DH5)	-40.00 kHz	40.00 kHz	40.00 kHz	12.66 kHz	✓
Max. Drift Rate (DH1) (/ 50 us)	-20.00 kHz	20.00 kHz	20.00 kHz	-8.09 kHz	✓
Max. Drift Rate (DH3) (/ 50 us)	-20.00 kHz	20.00 kHz	20.00 kHz	10.02 kHz	✓
Max. Drift Rate (DH5) (/ 50 us)	-20.00 kHz	20.00 kHz	20.00 kHz	-10.87 kHz	✓
Max. Drift (DH1)	-40.00 kHz	40.00 kHz	40.00 kHz	14.35 kHz	✓
Max. Drift (DH3)	-40.00 kHz	40.00 kHz	40.00 kHz	15.08 kHz	✓
Max. Drift (DH5)	-40.00 kHz	40.00 kHz	40.00 kHz	14.58 kHz	✓
Max. Drift Rate (DH1) (/ 50 us)	-20.00 kHz	20.00 kHz	20.00 kHz	6.98 kHz	✓
Max. Drift Rate (DH3) (/ 50 us)	-20.00 kHz	20.00 kHz	20.00 kHz	-10.28 kHz	✓
Max. Drift Rate (DH5) (/ 50 us)	-20.00 kHz	20.00 kHz	20.00 kHz	11.05 kHz	✓
Max. Drift (DH1)	-40.00 kHz	40.00 kHz	40.00 kHz	13.00 kHz	✓
Max. Drift (DH3)	-40.00 kHz	40.00 kHz	40.00 kHz	18.32 kHz	✓
Max. Drift (DH5)	-40.00 kHz	40.00 kHz	40.00 kHz	15.59 kHz	✓
Max. Drift Rate (DH1) (/ 50 us)	-20.00 kHz	20.00 kHz	20.00 kHz	8.49 kHz	✓
Max. Drift Rate (DH3) (/ 50 us)	-20.00 kHz	20.00 kHz	20.00 kHz	-10.36 kHz	✓
Max. Drift Rate (DH5) (/ 50 us)	-20.00 kHz	20.00 kHz	20.00 kHz	10.86 kHz	✓
Delta F1 Avg	140.00 kHz	175.00 kHz	175.00 kHz	159.33 kHz	✓
Delta F2 Max Threshold: 115.0 kHz	99.00 %			99.97 %	✓
Delta F2 Avg / Delta F1 Avg	0.79			0.87	✓
Delta F1 Avg	140.00 kHz	175.00 kHz	175.00 kHz	159.73 kHz	✓
Delta F2 Max Threshold: 115.0 kHz	99.00 %			99.93 %	✓
Delta F2 Avg / Delta F1 Avg	0.79			0.86	✓
Delta F1 Avg	140.00 kHz	175.00 kHz	175.00 kHz	159.27 kHz	✓
Delta F2 Max Threshold: 115.0 kHz	99.00 %			100.00 %	✓
Delta F2 Avg / Delta F1 Avg	0.79			0.86	✓
BER: *1E-6		1000.00	1000.00	12.50	✓
PER:			30.00 %	0.11 %	✓
BER: @ Channel: RX: 3, TX: 78 , *1E-6			1000.00	21.25	✓
PER: @ Channel: RX: 3, TX: 78 ,				0.08 %	✓
BER: @ Channel: RX: 39, TX: 0 , *1E-6			1000.00	0.00	✓
PER: @ Channel: RX: 39, TX: 0 ,				0.07 %	✓

Measurement Report



ROHDE & SCHWARZ

Test Name and Condition			
BER: @ Channel: RX: 78, TX: 78, *1E-6	1000.00	30.00 %	0.00
PER: @ Channel: RX: 78, TX: 78	1000.00	50.00 %	0.08 %
BER: *1E-6	1000.00	50.00 %	3.75
PER: @ Channel: RX: 3, TX: 78, *1E-6	1000.00	50.00 %	40.62
BER: @ Channel: RX: 39, TX: 0, *1E-6	1000.00	50.00 %	0.00
PER: @ Channel: RX: 39, TX: 0	1000.00	50.00 %	0.17 %
BER: @ Channel: RX: 78, TX: 0, *1E-6	1000.00	50.00 %	0.00
PER: @ Channel: RX: 78, TX: 0	1000.00	50.00 %	0.17 %
Detach device:			

MS Serial Number: 0015559002A5F

Result: 48 Tests passed / 0 Tests failed

(Execution Time: 87.0 Seconds)

MEGGITT

Securaplane Technologies

12350 N Vistoso Park Rd.
Oro Valley, AZ 85755 U.S.A.
CAGE Code: 0TMJ9
PH: (520) 297-0844 FAX: (520) 498-4924

Repair Station Discrepancy Rework Record

Customer: SR TECHNICS

Description		Work Order	Part Number	Part Revision/Identification	Part Serial Number
WELLS CONTROL UNIT		RM A 081572	140-2601-03	1002	1402
Step / Operation	**Discrepancy/Test	Corrective Action/ Work Instruction	Tech Date	Rework*/Action Taken	Production/ Inspection Date
1	REPAIR	Perform MM-0210-01 REV. 11	 OCT 15 2018	Unit FAILED ATP test.	 OCT 15 2018
2	Failure of ATP. Bluetooth Failure U7 on Control Board not functioning	Replace Control Board PN 140-2601-03.	 OCT 15 2018	Removed PN 140-2601-03, SN QS12420702 replaced with new SN S012D1K PO V037640 REC-165996	 OCT 15 2018 
3	Unit needs to be reassembled.	Reassemble unit IAW MM-0210-01.	 OCT 15 2018	Reassembled unit IAW MM-0210-01.	 OCT 15 2018

Sheet 1 of 2

*Part Designator/Part Number, P.O. No. or S/N

** May be N/A if same as operation

QC. 026 01/15

12350 N Vistoso Park Rd.
Oro Valley, AZ 85755 U.S.A.
CAGE Code: 0TMJ9
PH: (520) 297-0844 FAX: (520) 498-4924

Customer: SR TECHNICS

Sheet 2 of 2

*Part Designator/Part Number, P.O. No. or S/N
 ** May be N/A if same as operation

QC. 026 01/15