



PROCESS
SPECIFICATION

REABE DESIGN LLC

DePere, WI

BY: TRR

TITLE: Hopper Gauge Cal

CHKD: KCR

SUBTITLE: Collecting Data

NUMBER: PS 600

DATE: 20 FEB 2013

REV: 1

PAGE: 1 OF 3

PS 600

PROCESS SPECIFICATION

Hopper Gauge Cal

Collecting Data

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REVISION RECCORD

REV	DATE	BY	CHECKED BY
1	1 OCT 2019	TROY REABE	TROY REABE
PAGES		CHANGE	
ALL		Initial Release	
REV	DATE	BY	CHECKED BY
2	7 MAR 2023	TROY REABE	RYAN RENS
PAGES		CHANGE	
ALL		Address update from Duluth to DePere, changed to new title block	
REV	DATE	BY	CHECKED BY
PAGES		CHANGE	

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To get calibration data on an aircraft:

1. Install the quantity gauge as instructed by normal documentation.
2. Check that you are in Cal Mode: Hold the Dim button down while turning the display on. The display should display 8888 then Cal, then the Version, then the units (should be PSI GAL), last it should show Cal again before showing data. (if the unit is not in calibration mode see next page)



3. With the unit in calibration mode the lower line should show values between 1500 and 8000.
4. Park the aircraft on a level surface.
5. Verify the tank is empty, you should be showing a reading around 8000.
6. Write down the reading shown at 0.
7. Meter in 5 gallons of water.
8. Write down the reading shown.
9. Repeat steps 7 and 8 until the hopper is full. (it is useful to note gallons that number numbers started and stopped moving.
10. You should have a table that looks shown to the right.
11. Empty the Hopper
12. Use a Jack, Forklift, or something else that you would trust to bring the tail of the plane up to a level flight attitude. **(MAKE SURE TO SECURE AIRCRAFT TO PREVENT TIPING ON NOSE IF WATER MOVES CG)**
13. Verify you have the correct attitude.
14. Repeat steps 5, 6, 7, 8, and 9 to collect the flight data.
15. You should have a table that looks like shown to the right.
16. Send the tables to Sales@reabeair.com so we can program a display for you.

When sending data please include Customers Name, N-number, and Aircraft model info.

Gallons	3 Point
0	7940
10	7512
20	7260
30	7046
40	6866
50	6662
60	6473
70	6361
80	6151
90	6003
100	5861

Gallons	Flight
0	7940
10	7467
20	7160
30	6924
40	6719
50	6475
60	6246
70	6049
80	5879
90	5726
100	5582

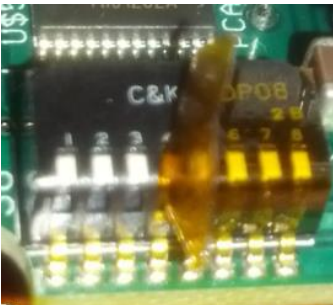
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If you need to put your display in Cal mode:

1. Remove the Main display from its mount so you can access the back of it.
2. Remove the rubber boot from the DIM button if installed.
3. Remove the (4) screws at the corners on the rear of the unit.
4. Lightly push the DIM button while pulling the the rear pannel out of the box.
5. The DIM button will push throught the front cover and you will then be able to remove the electronics from the enclosure.



6. Locate the Dip switches on the back side of the display board.



(You can remove the tape or leave it)

7. Make Note of current switch settings so you can return settings after calibrating.



8. Check that Dip switch 1 is in the "OFF" Position (away from the Board)
9. Check that Dip switch 6 and 7 are in the "ON" Position (towards the Board)
10. Re-assemble and re-install the display.