瑞深航空
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Richen Power

LIQUID LEVEL SENSOR

Read This First

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English

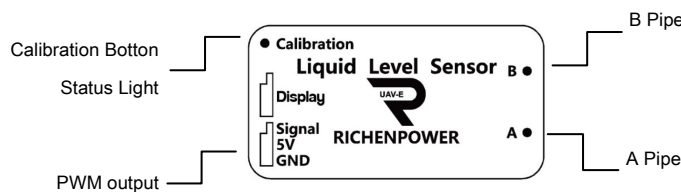This manual can be downloaded from the following website:

http://www.richenpower.com/services/

Specification

	LIQUID LEVEL SENSOR
Weight	31 g (0.03 oz)
Power Supply	DC 5 V$\pm$0.3
Demension	60 x 35 x 25 mm/ 2.4 x 1.4 x 1.0 in
Range	30 cm water or other liquid comparable
Output	5V 50 Hz PWM 0%—1100us 100%—1900us
Liquid Type	Water, oil, gasoline, diesel, jet fuel, agricultural chemicals and etc. Check the corrosion of liquid on pipes before use
Service Temperature	-20 ~ 40 °C

Checking the bundled items

- Sensor（1）
- Pipes（2）
- Signal wire （1）
- Manual（this）

Port Discription and Connection

PWM output port:

　　Signal: 5V, 50Hz Minimium liquid level 0%—1100us

　　　　　　Maximium liquid level 100%—1900us

　　5V: power supply +

　　GND:power supply -

Installation

a. Liquid may damage sensor chip. It is necessary to avoid contact between liquid and sensor through A/B pipes. We recommend to install sensor above the liquid container. A/B pipes come into the container through the top of container.

b. A pipe comes into container from top. Keep pipe end above the liquid and in the container.

c. B pipe comes into container from top. Lie pipe end on the bottom of liquid container.

d. H2Hybrid fuel tank has been intalled with sensor before delivery.

Calibration

a. Calibrate by first time use.

b. The green status light is on when power supplied.

c. Calibrate 0% empty level: when container is empty, press calibration button 5 seconds, status light begin to blink. 0% liquid level is calibrated.

d. Calibrate 100% full level: Fill the container with liquid. Press calibration button 5 seconds, status light stops blinking. 100% liquid level is calibrated.

e. Calibrate again when container is changed or the sensor does not work properly.

Start to use

a. Connect PWM output port to UAV flight control or Data Acquisition Module.

b. Power on. The green status light is on. The sensor works.