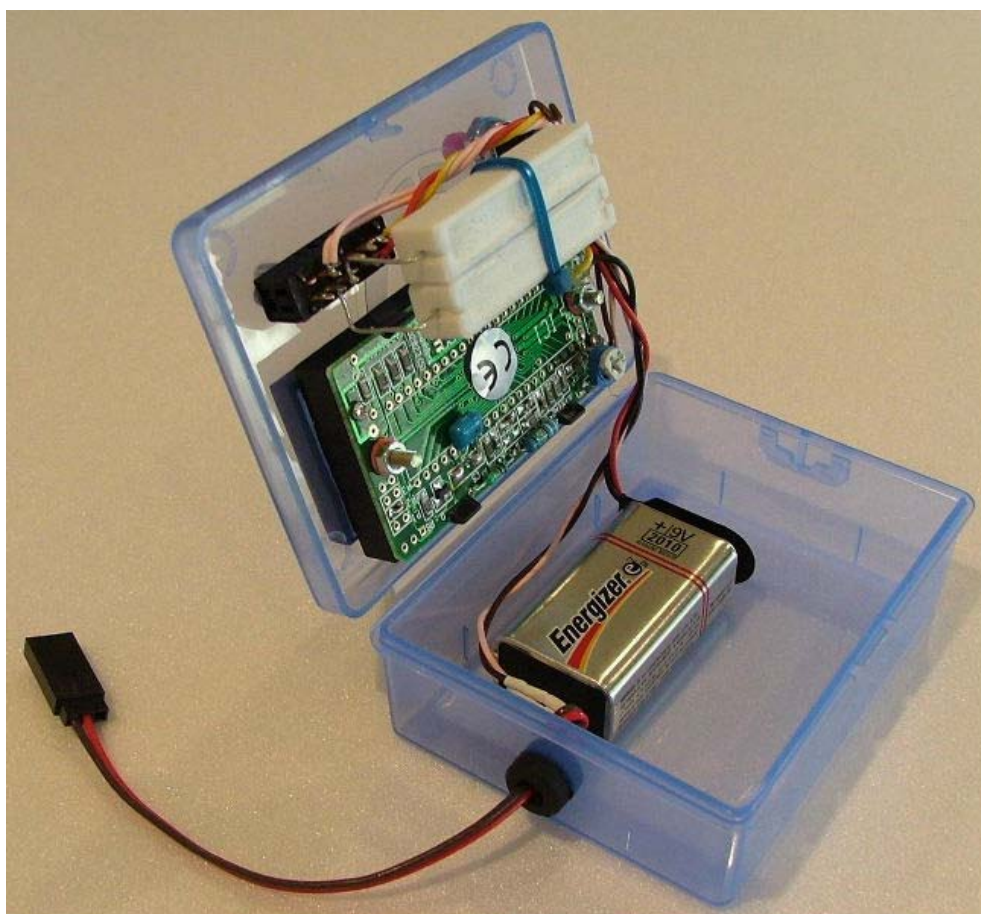
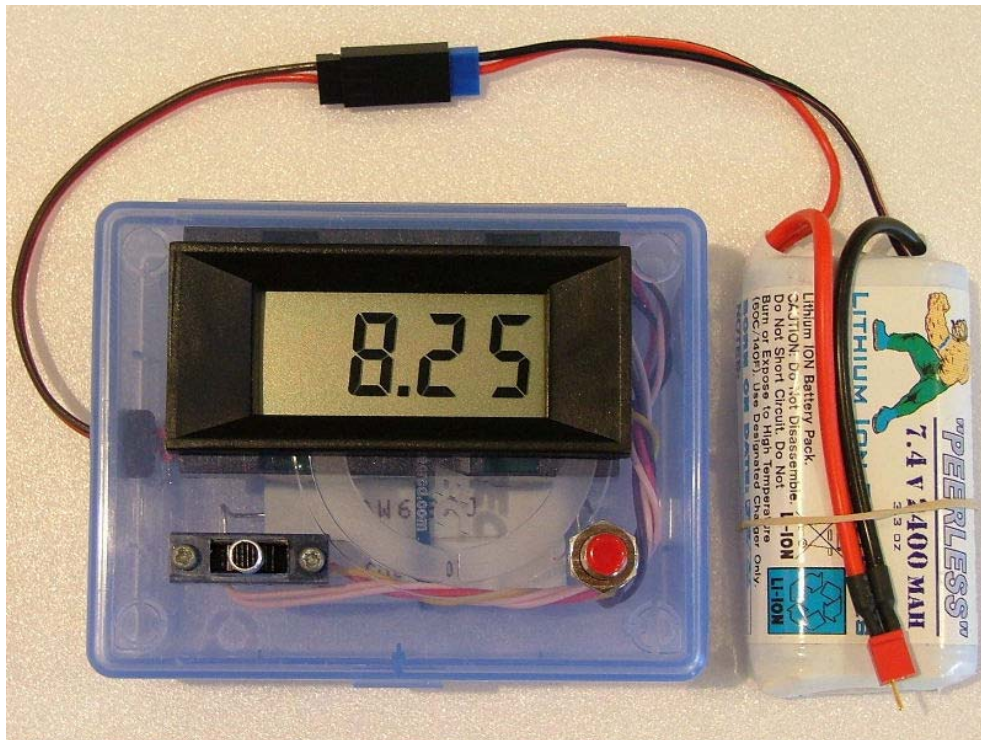


DIY RC BATTERY TESTER



DESCRIPTION

This battery tester will check 7.4V Li-Ion batteries under 0A, 1A and 1.5A loads and can easily be adapted to suit any battery or DC power source from 0-19.99V by changing the values of the two load resistors.

BILL OF MATERIALS

Item	Name	Part No	Price
LCD	LCD Panel Meter	DSE Q-2220	\$12.99
--	9V Battery Snap	Jaycar PH-9230	\$0.33
SW1	SPST Push Switch	DSE P-7560	\$1.20
		(or Jaycar SP-0710)	
SW2	DP3T Slide Switch	DSE P-7614	\$0.98
R1	8R2 10W Wire Wound Resistor	Jaycar RR-3351	\$1.50
R2	5R6 10W Wire Wound Resistor	Jaycar RR-3349	\$1.50
RB	3M3 0.25W Carbon Film Resistor (Pk8)	Jaycar RR-1660	\$0.30
RA	100K 0.25W Metal Film Resistor	DSE R-0624	\$0.06
J1	8" Servo Extension (test lead)	LHS	\$3.10
		Sub Total	\$21.96

Also required is a Hitec digital servo case or similar sized "jiffy" box, 9V battery, 22 gauge hookup wire and small rubber grommet.

CONSTRUCTION

1. Using the pictures as a guide mark and cut holes for the panel meter, switches, and test lead in the plastic case. Use a Dremmel tool and drill to rough cut the holes and a hobby knife for trimming and shaping. Remember to leave space for components to clear the case when the lid is opened and closed.
2. Fit the panel meter, slide switch (SW2) and push-button switch (SW1) to the case lid.
3. Remove the RB shorting link and install RA and RB scaling resistors to the panel meter (use 3 x 3M3 resistors in series to equal 9M9 for RB - refer to panel meter data sheet for more info).
4. Install the P2 decimal point jumper wire to the panel meter.
5. Install hookup wires, 9V battery snap and test lead (with grommet) as shown in the schematic and using the pictures as a guide.
6. Install R1 and R2 load resistors. Use a cable tie to secure the resistors together.
7. Fit 9V battery and secure to case with double-sided tape.
8. Secure the case lid and test the battery checker on an inexpensive battery pack before connecting to your model or LI-Ion batteries!

OPERATION

1. Connect the test lead to the battery under test.
2. With the slide switch in the left position, the battery tester is off.
3. With the slide switch in the centre or right hand position, the LCD will display unloaded (0A) battery voltage.
4. Pressing the test button with the slide switch in the centre position will display the battery voltage under a 1A load.
5. Pressing the test button with the slide switch in the right hand position will display the battery voltage under a 1.5A load.

FROMECO RECOMMEND A NO-FLY VALUE OF 7.0V UNDER 1A LOAD FOR 7.4V LI-ION BATTERIES.

