

## Technical Bulletin FMM0396

### Fiobuoy Maintenance: Avoiding 'Brownout' after battery replacement

Date: 1 Dec 2010

#### Equipment Applicable

ACOUSTIC Fiobuoy models pre Dec 2010.



#### Background

It has been observed that some Fiobuoy exhibit potential failure when

- Battery removal/replacement is completed in less than 5 minutes
- Or there is 'contact bounce' as the new battery is being plugged in.

The effect is to cause the system to enter a state known as 'brown-out' where unpredictable results can occur with potential for failure in the field.

#### Avoiding Brown-Out

After disconnecting and removing the old battery -

1. wait at least 20 min before installing and connecting the new battery  
*(preferred method)*  
(or 'quick' method: short the two pins of the red/black Battery Lead Connector for approx 10sec)
2. Ensure when plugging in, that contact is made quickly and cleanly with only one contact moment, ie, no bounce or partial connection.



Battery Lead Connector

#### Verification

- Connect Fiobuoy via the IR-Lead to the already powered up Pision (or Laptop/PC etc.), then plug in the new Fiobuoy battery.
- The first line printed to the screen will be "New Batt Init \*iI-00"
- If the last two digits are '00' as show, then that there is no brown-out condition and the equipment will function properly.
- If any other value is displayed, there is potential for brown-out and therefore equipment failure, so undertake the avoidance steps above.

For further information or assistance, contact Fiomarine.