

Ion Cube

Lithium Phosphate "A123"

FROMECO

INSTRUCTIONS

For Ion Cubes without a Brain (display and programming card)

1. Plug in a power source to Ion Cube banana jacks (13.8V bench supply or deep cycle battery)
2. Connect battery to black plug on Ion Cube channel(s)
 - a. Blue light will blink 2 times for a 2s (7.4V) battery
 - b. Blue light will turn on and stay on. Battery will charge at a 2.5 amp maximum rate
 - c. Blue light will turn off when charge is completed

For Ion Cubes with a Brain (display and programming card)

3. Do steps 1, 2, and 2a as above
4. Use the right(yellow) button to scroll to the channel with the battery connected
5. Set the desired charge rate by changing each digit with the left (blue) button, and selecting the next digit with the right (yellow) button. Select "OK" in the same way. Select "END" to cancel if needed. You can select a charge rate from 0.1 to 2.5 amps.
6. Screen will display "Charging", blue light will light to indicate a charge in progress.
7. Multiple batteries can be charged or monitored by using the left (blue) button to scroll through all five channels. Each channel has two screens. The first screen will display voltage and current. The second screen for each channel indicates mA-h input for the charge.
8. Blue light will turn off when charge is completed. Charge may be terminated early (when "full enough to fly!") by removing the battery at any time.

Adding a Channel

1. Disconnect any batteries and input power
2. Remove four screws holding clear cover
3. Insert new channel in empty slot
 - a. IMPORTANT: Do not put a channel in the top slot. It is reserved for the Brain card.

4. Reinstall clear cover. Be careful to center black output plugs in their holes.
5. Ion Cubes can be fitted with both Lithium Ion charging channels (green) and Lithium Phosphate (red) at the same time. Example you can have the top 3 channels Lithium Ion, and the bottom 2 channels Lithium Phosphate. Ion Cube will still function normally as long as the appropriate battery is plugged into the correct channel.

Adding a Brain

1. Do steps 1 and 2 from "Adding a Channel"
2. Install the brain card in the top slot.
3. Reinstall clear cover. Two tabs on the front of the brain card will fit into 2 slots on the inside of the clear cover.
4. Install the blue button cover on the left button, and the yellow button cover on the right button, through the clear cover.

Fromeco Warranty is void if:

Ion Cube is used with an underrated powersupply.

Ion Cube is used with AC/DC wall outlet converters.

Ion Cube is used with Hobbico Accucycle Elite supplied Power supply.

Note: The Fromeco Ion Cube is a Powerful tool for charging Lithium Ion and Polymer batteries. It is very important to use a proper power supply. 12 volt car batteries or deep cycle marine batteries are a good choice as a source of power. 12 volt AC/DC power supplies also work well as long as they are properly rated. Pyramid PS21KX is a great choice, and is like the "type" that Fromeco would like to see used with the Ion Cube.

Fromeco will not honor it's warranty if an underrated power supply is used with the Ion Cube.

Fromeco Scale Avionics LLC® warrants that at the time of shipment and for a period of ninety (90) days thereafter the Product (Fromeco Scale Avionics LLC® (Ion Cube) shall conform to the functional description contained herein, and shall be free from defects in workmanship. If any defect within this warranty appears, the Purchaser shall notify FROMECO immediately. Buyer's sole and exclusive remedy in the event of a defect is expressly limited to (at Fromeco Scale Avionics LLC® sole election) correction of the defect by replacement or issuance of credit in the amount of the price of the Product, for any Product which proves defective within the above warranty. The foregoing warranties are the sole and exclusive warranties made by Fromeco Scale Avionics LLC®. THESE WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. In no event shall Fromeco Scale Avionics LLC® be liable to Purchaser, end user, or any other party or individual for any incidental, special or consequential damages of any nature that are or could be attributable to the product. Fromeco Scale Avionics LLC® maximum liability shall not exceed the purchase price of the Product under this agreement. Use of the Product by Purchaser shall constitute Purchaser's acceptance of these terms.