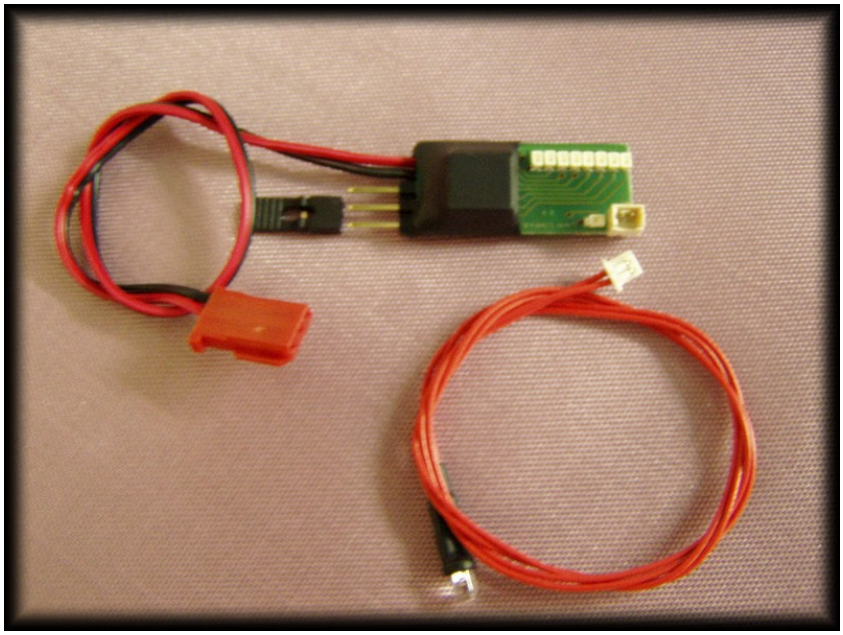
ALEWINGS di Alessandro Torri
v. del Lavoro, sn - 20084 Lacchiarella MI
P.I. 04683390969 C.F. TRRLSN75S29F205Z
Tel.+39.02.94089939 Fax+39.02.90030855
www.alewings.it info@alewings.it

Date: May 2009
Document version: V1.0

To consult the last version available of this document, we recommend you to download it from our web site www.alewings.it customer care section.

VOLTAGE MONITOR



Usage handbook

ALEWINGS di Alessandro Torri
v. del Lavoro, sn - 20084 Lacchiarella MI
P.I. 04683390969 C.F. TRRLSN75S29F205Z
Tel.+39.02.94089939 Fax+39.02.90030855
www.alewings.it info@alewings.it

Dear client,

We express our thanks for your purchase of **Voltage Monitor**.

The accurate and essential device to verify before every flight, with a glance, the battery charge state on board.

Only in this way you can fly, every time, in full security.

Characterized by high luminous LED diodes in SMT technology it can be used to monitor Nicd – NiMh – IoLi – LiPo – Pd accumulators and thanks to an easy manual setting, the device can monitor accumulators of different cells.
The very low weight and the reduced size of only 13mm per 29mm allow to position **Voltage Monitor** in any place of the aero model, from the side, to the cockpit or in the fuselage.

FUNCTIONING:

Voltage Monitor has a set of 8 colored diodes SMT LEDs (5 green and 3 red), depending on the version and it can be setted by the number of cells indicated by a simple moving operation of the bridge.

Be very careful during this phase because a wrong settlement could report an incorrect battery level.
Once installed, Voltage Monitor will report by switching on its related led, the board battery charge state.

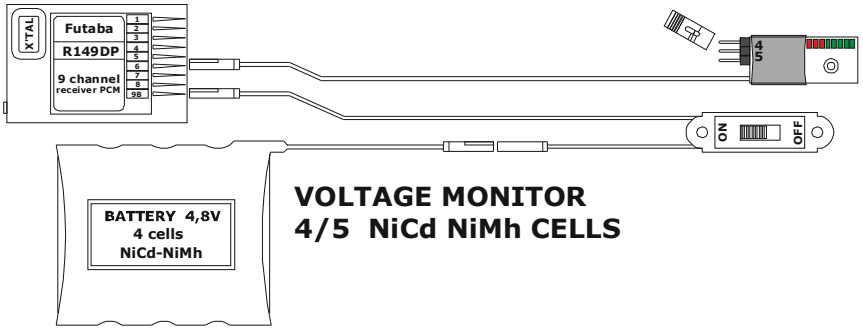
The scale of the eight led diodes, 5 green and 3 red, is read with the following criteria:

- The first green LED indicates an excellent battery state
- The second green LED indicates a good battery state
- The third green LED indicate a fairly good battery state
- The fourth green LED indicates a sufficient battery state, but close to the alarm zone
- The fifth green led indicates the status of low battery, we recommend to recharge the accumulator before further use.
- The first red LED indicates an inadequate battery state, and it is necessary to recharge the accumulator before further use.
- The second and third red LED indicate the status of very low battery, and it is necessary to recharge the accumulator before further use.

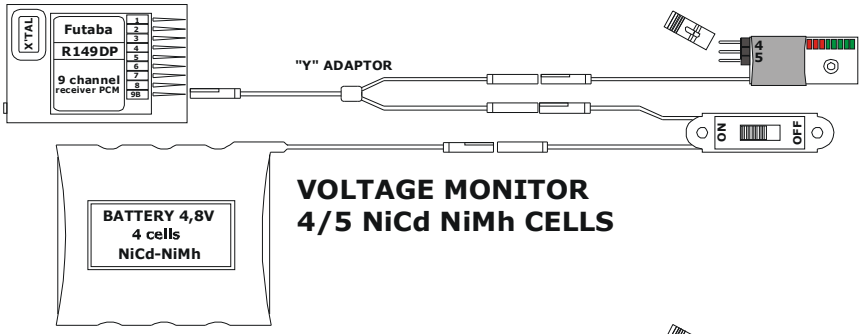
Installation:

To facilitate the proper installation of the device you should follow as an example the following types of use.
Please note: You must install the Battery-Ioli LiPoli first voltage regulator that reduces the voltage of the pack Ioli LiPoli 2S to 5.4 V.

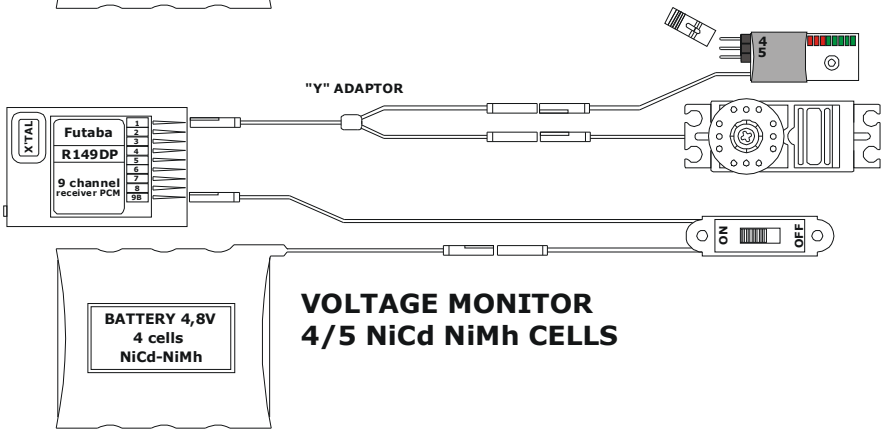
ALEWINGS di Alessandro Torri
v. del Lavoro, sn - 20084 Lacchiarella MI
P.I. 04683390969 C.F. TRRLSN75S29F205Z
Tel.+39.02.94089939 Fax+39.02.90030855
www.alewings.it info@alewings.it



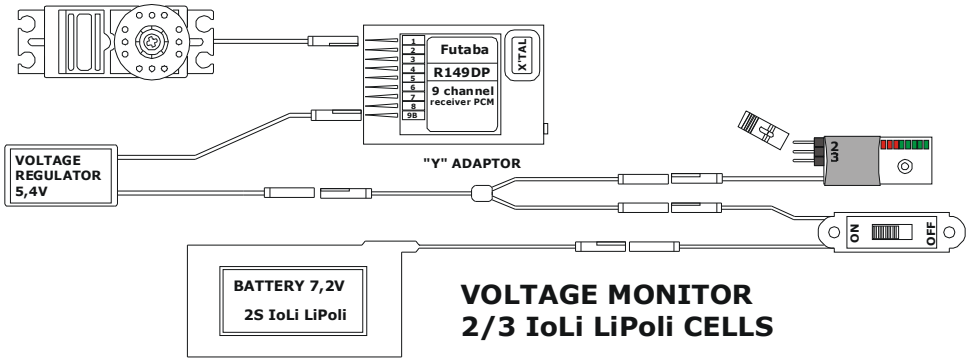
VOLTAGE MONITOR
4/5 NiCd NiMh CELLS



VOLTAGE MONITOR
4/5 NiCd NiMh CELLS



VOLTAGE MONITOR
4/5 NiCd NiMh CELLS



VOLTAGE MONITOR
2/3 IoLi LiPoli CELLS

ALEWINGS di Alessandro Torri
v. del Lavoro, sn - 20084 Lacchiarella MI
P.I. 04683390969 C.F. TRRLSN75S29F205Z
Tel.+39.02.94089939 Fax+39.02.90030855
www.alewings.it info@alewings.it

We recommend you to connect the device after the ON-OFF switch of the radio to avoid that it remains powered even with the radio system shut down.
It is connected by the plug compatible Futaba / JR, the receiver (NiCd NiMh version) or at the switch before voltage reducer (version Ioli LiPoli).
It can be installed very easily on side of the fuselage or on the cockpit of the pilot, you have to make a rectangular hole of approximately 16 x 4mm on the side of or in a clearly visible place. You must fix inside the fuselage with Voltage Monitor double-sided tape, silicone, adhesive velcro or by a M2 screw which is not supplied with Voltage Monitor, using the mounting hole in the middle of the plate.

TECHNICAL PECULIARITIES:

Voltage range:	It depends on the version
Accumulators:	Nicd, NiMh, LiIon, LiPoli, Pb
Absorption:	15mA @ 7.5V
Size:	29 x 13mm
Weight:	4.5gr cables included
Functioning temperature:	-10 up to +60°C

USERS NOTICES:

Warnings:

Not put near a source of heat above +60°C, mixture of gasoline, alcohol or solvents, don't place the device in humid areas, not cause short circuits, not damage or remove the thermo constricting protection.

AEE Waste disposal:

According to art.13 of the Legislative Decree of July 25th 2005, n.151, "Implementation of Directives 2002/95/EC, 2002/96/EC and 2003/108/EC, concerning the reduction of hazardous substances for electrical and electronical equipmentand disposal of waste".
The symbol of the crossed rubbish bin swon on the equipment or on its packaging, indicates that the product at the end of its usel life must be collected separately from other waste.
At the end of its use, the user will have to bring the equipment to its suitable separate collection of electronical and electro-technical rubbish or bring it back to the dealer at the moment of the purchase of a new similar device.
The proper collection of the desued recycling equipment, the treatment and the environmentally compatible disposal contributes in preventing possible adverse effects on the environment and human health and it furthers the reuse and/or the reciclyng of materials.
Improper disposal of products involves the application of administrative sanctions provided by law.