

Accuinterface Uni

Art.No. 6912

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The **Accuinterface UNI** is an electronic board, equipped with:

- a connecting plug (A) for the *Pulsar-EQUAL*
- a communication cable (B) to be connected to the temperature sensor socket of the *Pulsar 2* charger
- a socket for the temperature sensor

The 12 equalizing channels are realized with 13 conductive strips. (1 x negative and 12 times positive for the representative cells in the accupack)

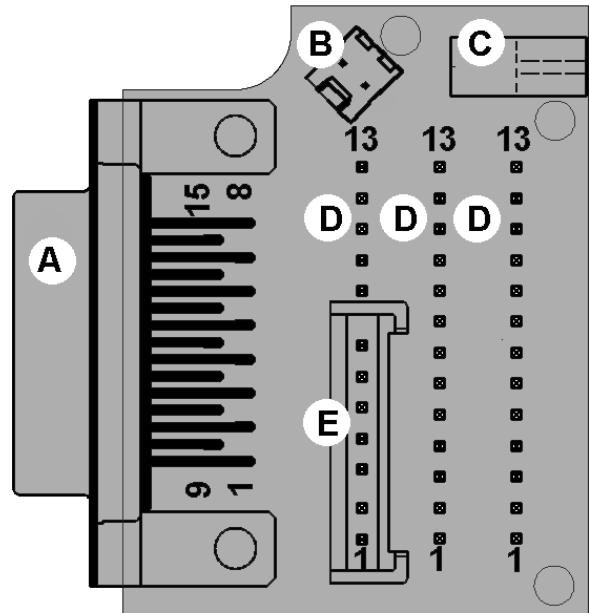
On the board there are three rows of 13 holes each. (D) The distances between the holes in a row is 2.5 mm. But the holes are big enough, to also accept sockets with a pin distance of 2.54 mm. These three rows of holes offer the possibility to realize individual equalizing configurations with the different plugs in use today. The UNI board is already equipped with a 7 pole socket (E) to accept balancer plugs used by Graupner/Robbe/Kokam and similar plug systems. A second 7 pole socket comes with the kit.

Realizing different connections

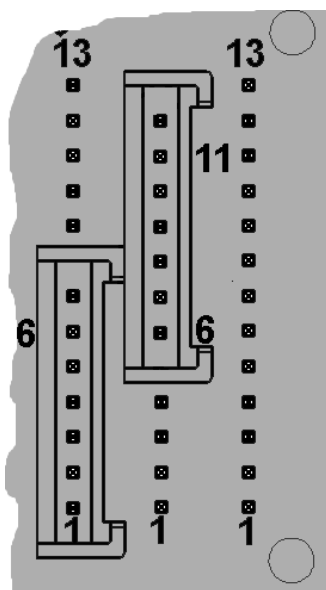
Li-accupacks marketed today have different balancer plugs, depending on the supplier of the packs. The accuinterface UNI can easily be adapted to the different plugs in soldering a balancer cable with a representative socket at the end of it, to the row of holes. Please follow the sequence below.

- Pin 1 – negative pole of the accupack
- Pin 2 – positive pole of cell 1/negative pole of cell 2
- Pin 3 – positive pole of cell 2/negative pole of cell 3
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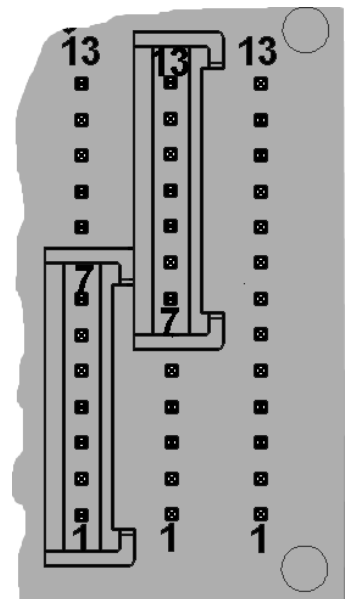
- Pin 12 – positive pole of cell 11/negative pole of cell 12
- Pin 13 – positive pole of the accupack



If an accupack has two balancer cables, e. g. a 12 cell accupack one for 6 cells each, the sockets need to be placed on the board, so that the negative pole of the pack is connected to hole 1 and the positive pole of the accupack is connected to hole 13. This results in an overlapping positioning of the two sockets in row one and two. Thus the positive pole of cell 6 is connected to the negative pole of cell 7, the same, as it is connected within the accupack itself (refer to right drawing).



Another example is a 10 cell accupack with two 6 pole balancer plugs. The second 7 pole socket has now to be placed on the board, so that the positive pole of the accupack is connected to hole 11. The 7 pole sockets are now overlapping by two holes, connecting the positive pole of cell 5 to the negative pole of cell 6. In this case the seventh pole of each socket will not be used (refer to left drawing).

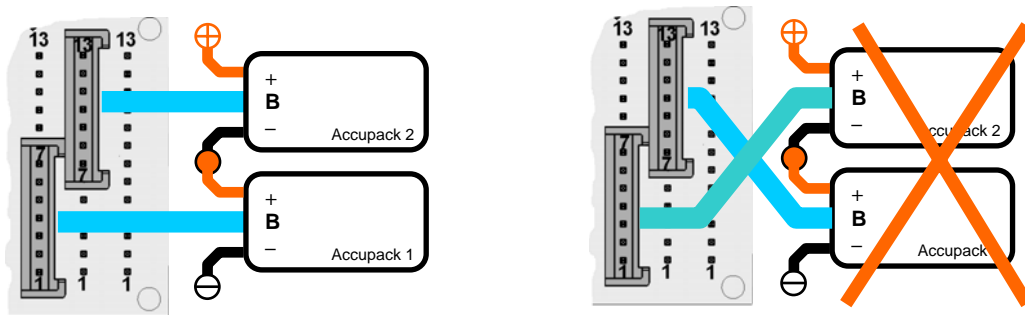


Since the Graupner/Robbe/Kokam system allows to use smaller plugs with larger sockets, e.g. to connect a 4 pin plug to a 7 pin socket, always check the proper position of the plug in the socket. Otherwise short circuits or wrong polarity may occur.

It is also possible to use other than the 7 pin sockets. 3 to 7 pin sockets are

available for order. Thus any combination to connect an accupack can be realized. The third row of holes can be used to connect other plug systems by soldering the adapter cables to it. Although the UNI board can be used for different connecting systems, we recommend to use specifically configured UNI boards for each application. Only this guarantees a maximum of safety.

Please notice how to connect two accu packs.



WARNINGS

- always check the polarity
- avoid any short circuits
- always connect the accupack to the **Accuinterface UNI** first, and then the **Accuinterface UNI** to the **Pulsar-EQUAL**
- if you detect any irregularities during the operation, immediately stop the process and contact our service line.

Manufacturer:

ELPROG
ul. Przemysłowa 1/611
PL 35-105 Rzeszów
POLEN

General Distributor:

pp-rc Modellbau Piechowski
Weidenstieg2
25337 Kölln-Reisiek
GERMANY
Tel.: +49 4121 740486 Fax: +49 4121 750676 www.pp-rc.de

