

Anvendelse

Batteriboksen anvendes til forsyne Frederiksens mikrofoner med strøm da disse ikke selv leverer en forsyningspænding. Et typisk eksempel er tilslutning af en mikrofon (248600 eller 251570) til et oscilloskop eller et AC voltmeter.

Sensor-indgangen er en 6-polet modularbøsning. Der medfølger et fladkabel med modularstik, som passer i bl.a. ovennævnte mikrofoner.

Ældre mikrofoner og sensorer med DIN-stik kan ikke anvende 251565, men skal tilsluttes den ældre type batteriboks 251560.

Tilslutning

Små solceller genererer typisk en relativt høj strøm – og en ret lav spænding. Derfor skal man være opmærksom på spændingsfald i bøsninger, ledninger og amperemeteret.

For at måle den spænding, som produceres af f.eks. en solcelle, skal voltmeteret forbindes med sikkerhedskabler helt henne ved solcellen.

Batteriskift

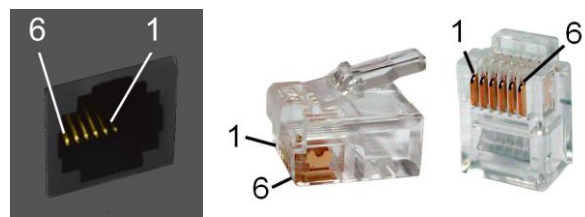
Batteriboksen anvender et enkelt 9 V batteri (varenummer 351010). For at udskifte batteriet åbnes på undersiden en låge ved at løsne en skrue. Når bunden skrues fast igen,

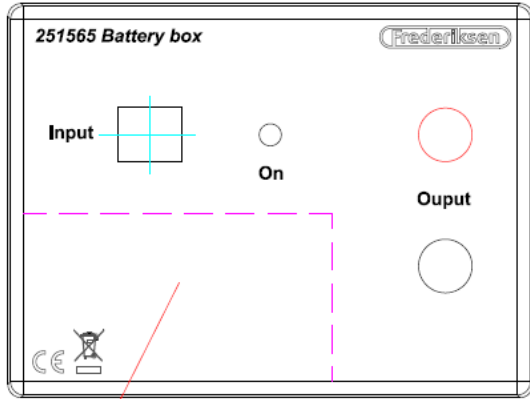
skal man være varsom med ikke at spænde skrueerne mere end nødvendigt.



Tekniske data

- pin 1: Analog signal ind
- pin 3: Ground (0 V)
- pin 5: 5 V ud (max. 100 mA)
- pin 6: Sense (forbind til 0 V for at tænde





Operation

The load box is used in conjunction with smaller solar panels, fuel cells and similar small power generating devices to form characteristics of the source's performance.

The box is part of an experiment (Experiment no. 139230) with the solar panel 488505, where several resistance values are selected to form a characteristic curve for the performance of this particular solar cell or a series of solar cells.

Connections

Small solar cells typically generate a relatively high current and a fairly low voltage. Therefore, one must be aware of voltage drops in the sockets, wires and the ammeter.

To measure the voltage produced by e.g. a solar cell, the voltmeter must be connected with safety cables all the way to the solar cell.

To draw the highest possible current, the ammeter must have as low an internal resistance as possible. On a multimeter, you can often choose a special bushing, intended for "large currents" - even if the current does not exceed the "normal" target range.

Battery Change

The battery box uses a single 9 V battery (item number 351010). To replace the battery, open a door on the underside by loosening a screw. When screwing the bottom back on, be careful not to tighten the screws more than necessary



Technical data

- pin 1: Analog signal ind
- pin 3: Ground (0 V)
- pin 5: 5 V ud (max. 100 mA)
- pin 6: Sense (forbind til 0 V for at tænde

