

FCS-A11

Battery Pack for Relcom Power Hub



1 OVERVIEW

The FCS-A11 Battery Pack is a self contained power source for the Relcom Power Hub. Using it with the Power Hub allows the user to power a Fieldbus device in a remote area where the Fieldbus infrastructure does not yet exist and no AC power is available. Fieldbus devices may then be configured in the field using a Fieldbus configuration device such as the National Instruments Configurator or the Emerson 375.

2 DESCRIPTION

The FCS-A11 Battery Pack consists of an enclosure that houses user replaceable 9V batteries. A short cable delivers power from the batteries to the Relcom Power Hub. An internal self resetting fuse is provided for safety in case of an overload. For user convenience, a short piece of DIN Rail is fixed to the FCS-A11 case to allow attachment of the Relcom Power Hub. This makes for a convenient way to carry the two devices.

Instructions



3 MECHANICAL

3.1 Mounting

The FCS-A11 Battery Pack is not intended to be permanently mounted. It comes with rubber feet on its base and is usually placed on a horizontal surface (table).

3.2 Connecting a Power Hub to the Battery Pack

A short piece of DIN Rail has been fastened to the top of the Battery Pack. A Relcom Power Hub may be attached to this length of DIN Rail for user convenience.

4 ELECTRICAL CONNECTIONS

4.1 DC Power Output

The Battery Pack comes with a short cable and DC Power connector that mate with the Relcom Power Hub. Connect the cable to the Power Hub to supply it with power. To prevent unnecessarily draining the battery, remove the power cable from the Power Hub.

4.2 Battery Replacement

The internal 9V batteries may be replaced by removing the four (4) case screws on the top of the unit (same side as the DIN Rail). Once these are removed, the case top may be removed. The three (3) batteries are held in place and make connection with battery holders. Remove each battery and replace with a fresh one (all batteries should be replaced at the same time). Restore the cover and fasten with the four (4) screws.

5 TESTING

5.1 Battery Status

The status of the batteries is most reliably determined by testing the Battery Pack with a voltmeter. Set the voltmeter on DC Volts and measure the battery voltage using the DC Power connector. One probe would be inserted into the hole in the connector, and the other on the outer diameter of the metal barrel. Fresh batteries will measure near 29VDC. Fully depleted batteries will be at or below 18VDC.

Battery status cannot be reliably determined by measuring the voltage on the Power Hub. This is because of the circuitry within the Power Hub.

6 ROUTINE MAINTENANCE

There are no user serviceable parts in the Battery Pack except for the batteries. If the unit is damaged in some way or does not work properly, please contact Relcom for service or replacement.