



**Battery Temperature
Sensor**

**Model
DC-BTS-A-C**

**Owner's
Manual**

For use with solar
charge controller
Model No.:
SCC-30AB

GENERAL DESCRIPTION AND FEATURES

1. Battery Temperature Sensor Model No. DC-BTS-A-C (Fig 1) is designed for use with Samlex Solar Charge Controller Model No. SCC-30AB. It senses the temperature of the battery installation and sends this information to the Charge Controller, which automatically adjusts its voltage to ensure proper battery charging depending on the ambient temperature of the battery installation.

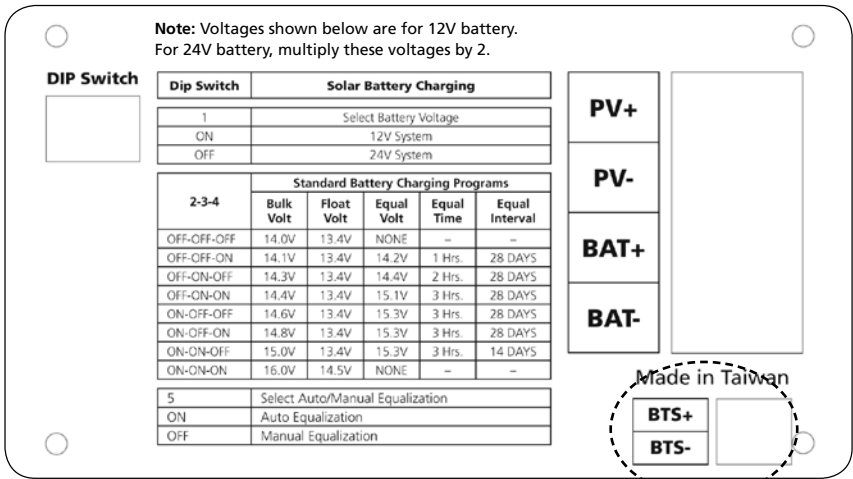


Fig.1 Components of Battery Temperature Sensor

1. Ring terminal with embedded sensor
2. Bare Positive (+) end (Red wire)
3. Bare Negative (-) end (Black wire with red stripe)
4. 10 Meters of two wire color coded cable
 - Positive wire - Red
 - Negative wire - Black with red stripe

2. It consists of a sensing element that is embedded in the ring terminal
 - (1, Fig 1). This sensor is attached to 10 meters of two wire, color coded cable (4, Fig 1). The cable is polarized i.e. red wire has Positive polarity and the black wire with red stripe has Negative polarity. The other ends of the wires
 - (2, 3, Fig 1) are bare and are required to be connected to the terminals on the charge controller marked BTS+ and BTS- (Fig 2).
3. Detailed operation of the Battery Temperature Sensor is further explained in the Owner's manual for the Charge Controller Model No.SCC-30AB

INSTALLATION



Connect the wires of the Temperature Sensor here.

Fig 2 Wiring connections on the back of the Charge Controller Model No. SCC-30AB

4. This ring terminal should be mounted on a terminal post of a battery in a bank.

- Switch off all devices operating from the battery
- Connect the ring terminal of the sensor (1, Fig 1) directly to the Negative battery stud. This provides a very good thermal sensing of the battery as well as preventing error in temperature sensing due to loss of contact under vibrations
- Route the sensor cable to the charge controller
- Connect the Positive (+) bare end of the wire (2, Fig 1) to the Positive terminal marked BTS + on the Charge Controller (Fig 2)
- Connect the Negative (-) bare end of the wire (3, Fig. 1) to the Negative terminal marked BTS – on the Charge Controller



CAUTION!

Please ensure that the Positive wire is connected to the POSITIVE connector BTS+ and the negative wire is connected to the NEGATIVE connector BTS–.