

**GME**

***Electrophone***

# EBS-1

**EMERGENCY BATTERY  
CHANGE-OVER SWITCH**



**INSTRUCTION MANUAL**

## DESCRIPTION

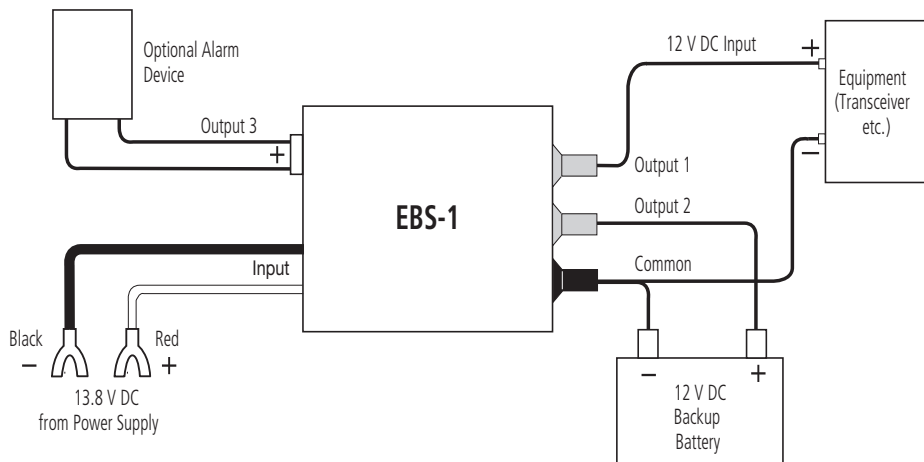
The EBS-1 is an emergency battery change-over switch designed to monitor the 13.8 Volt DC output from your power supply. If the mains power should fail, the EBS-1 will automatically switch a 12 Volt backup battery into circuit so that power is maintained to your equipment. When the mains power is restored, the EBS-1 switches back to the power supply. The EBS-1 has been specifically designed for use with the GME Electrophone PSA1210 (10 Amp) or PSA1225 (35 Amp) power supplies, but is suitable for use with any power supplies of similar rating.

During normal operation, the 12 Volt backup battery is trickle charged from the main power supply. The charge rate is selected internally. Alarm terminals are also provided so that a 12 V DC alarm device (buzzer, piezo alarm etc.) can be connected to warn of power failure.

The EBS-1 is particularly suited to remote site or base installations where continuous equipment operation must be maintained.

## CONNECTION

The EBS-1 is connected as shown below. The connection of an alarm device to the alarm terminals is optional.



## CHARGING

The charging rate for the backup battery can be set using 40 mm automobile bulbs. The bulbs can be installed into the printed circuit board (PCB) sockets provided.

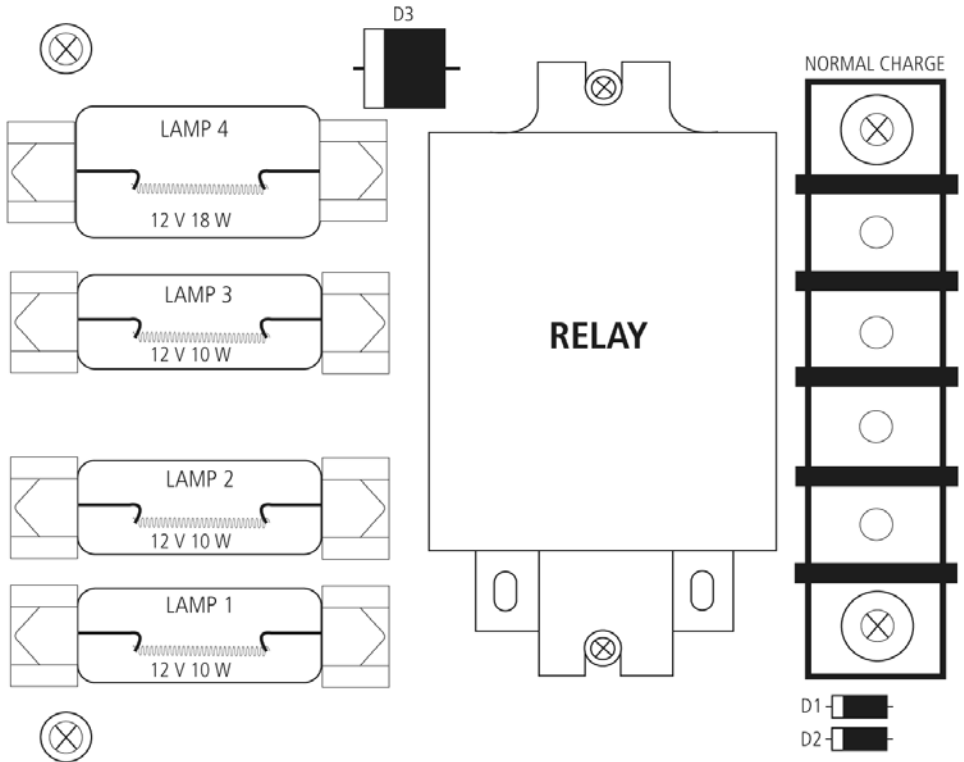
By using a combination of 10 Watt and 18 Watt bulbs, a range of trickle charging rates can be

selected. A single 10 Watt bulb provides the lowest charge rate, while three 10 Watt bulbs and one 18 Watt bulb give the highest charge rate. If you do not wish to charge the backup battery, remove all of the bulbs.

## CHARGING RATES

Because the battery type and condition will vary between installations, it is not possible to provide a charge rate table for selecting the required combination of bulbs. The maximum charge rate should be selected on the battery being used (in

its discharged state) by measuring the charging current with a meter. The bulbs will provide a relatively constant charge current on a heavily discharged battery, but the current will drop off as the battery voltage reaches the full charge level.



## ALARM

The alarm terminals provide 12 V DC from the battery, ONLY when the main power supply has failed. During normal operation from the main power supply, there is no voltage available from these terminals. The terminals can be connected

to any 12 Volt device with a maximum rating of 10 Amps, dependent on the backup battery being used. Alternatively, in remote sites, the +ve terminal could be used to trigger a beep tone in a transmitter.

## WARRANTY

GME Electrophone warrants this product to be free of defects in materials and workmanship for a period of twelve months from the date of purchase from their authorised dealer.

During the warranty period, all labour and parts used to repair defects will be supplied free of charge. GME Electrophone reserve the right to decide whether the defect has been caused by accident, improper installation or repair, or misuse which would void the warranty, including:

- Water or moisture penetration
- Non factory modification or repairs

In the event of a defect occurring during the warranty period, the owner should return the defective unit, along with suitable proof of the purchase date and a full description of the fault, to the dealer from whom the unit was purchased. The dealer will forward the unit to the nearest authorised GME Electrophone service centre.

Freight costs are the responsibility of the owner.

### GME ELECTROPHONE AFTER SALES SERVICE

Your GME Electrophone product is especially designed for the environment encountered in domestic or commercial installations. Careful design and strict quality control result in high reliability. However, should a failure occur after the warranty

period expires, GME Electrophone maintain a fully equipped service facility and spare parts stock to meet the customers requirements long after the expiry of the warranty period.

**GME** *Electrophone*

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