
DS 100 Docking Station

Installation and Maintenance Instructions

Description

The DS 100 docking station is designed to be used with the HHDL which forms part of the Spirax Sarco steam trap management system (STMS). It ensures that the HHDL batteries are charged at the correct rate as well as providing a convenient means of storing the HHDL when not in use. It also allows data collected to be downloaded to a PC during charging/storage.

Getting started

When first placing the HHDL in the DS 100 cradle, the green 'CHARGE READY' light will begin flashing immediately indicating a rapid charge cycle has begun. At the end of this charging cycle (as much as 60 minutes for a completely 'dead' set of batteries), the 'CHARGE READY' light will remain on indicating that the battery Ready Mode has started. This is a maintenance mode or trickle charge to keep the batteries fully charged. Once the Ready Mode has been reached, the batteries are fully charged, and the HHDL may be removed from the cradle.

Should the HHDL be removed from the cradle, the red 'FAULT' light will light briefly. If, for any reason, the connection of the HHDL to the cradle has been disrupted, the red 'FAULT' light will light and remain lit until the 'RESET' button is pressed or the HHDL has been removed completely from the cradle and then replaced. If the red 'FAULT' light becomes lit during a

charge cycle, remove the unit and verify that batteries are installed, that they are Nickel Cadmium, and that they are fitted correctly. If all these conditions are met, then replace the HHDL in the DS 100 charger cradle and try charging again. If the 'FAULT' light illuminates again, replace the batteries one at a time until charge cycle functions normally.

WARNINGS

1. **Do not charge Alkaline Batteries.**
2. Do not repeatedly press the 'RESET' switch after the batteries have been fully charged. This may cause overcharging which damages batteries.
3. After removing the HHDL from the DS 100 cradle, it should not be reloaded into the cradle again for at least 30 seconds. Otherwise, the DS 100 will reinitialise the charge cycle.
4. Do not attempt to charge an HHDL that does not have Nickel Cadmium batteries installed.
5. If the batteries in the HHDL are allowed to fully discharge, data will be lost and the system will not power up until the lithium cell is replaced. To avoid this it is recommended that the HHDL is left connected to the DS 100 docking station and the batteries are kept fully charged during long periods of non-use.