

Universal Central Battery System for all Sigtex Emergency Lighting Products Installation Instructions & Users Manual

Diagnostics Operation

Turn AC power ON. The LED status indicator will illuminate and should initially illuminate steady AMBER (high charge rate). Upon reaching full charge, the indicator will change to steady GREEN (low charge rate).

The LED Status Indicator will show the following:

	<u>NORMAL</u>	<u>FAULT</u>
Battery	GREEN OR AMBER	RED FLASH 1 SEC
Transfer Switch	No Indication	YELLOW FLASH 1SEC
Charger Status	No Indication	RED FLASH 2 SEC
30 Day Test	PASS	No indication
Annual Test	PASS	ALTERNATE RED/GREEN

AUTOMATIC SYSTEM TESTING

30-Day Test

Battery Condition: Voltage above 10.5V

Transfer Switch Operation: Transfer Functions OK

Battery Charge Rate: Positive Charge Current

ANNUAL TEST WITH 90 MINUTE MINIMUM OPERATION

12 months from the date of installation, the system will automatically perform an annual test of the above three functions and components by initiating full operation of the emergency load for 90 minutes, in compliance with NFPA Life Safety Code 101. Initiation of the annual test can occur automatically 12 months following installation. To avoid emergency lighting operation at potentially undesirable times, and to ensure the test date is recorded accurately as required by LSC 101, we recommend this test be activated manually, by pressing the red button located next to the Control Board and marked "ANNUAL TEST MANUAL START", see below.

MANUAL INITIATION OF THE ANNUAL TEST

Remove the CBS panel cover. Momentarily press and release the RED button located next to the Charger Control Board and marked ANNUAL TEST MANUAL START. The system will operate the full connected emergency load for 90 minutes for the Annual Test.

NORMAL RESULT = RED/ GREEN FLASH
FAIL RESULT = RED FLASH 1 SEC/ 2 SEC PULSE

RESET PROCEDURE AFTER ACTIVATION OF ANNUAL TEST

Program controller must be reset following any manual activation of the annual test:

1. Disconnect the 24 V battery connector
2. Press the Push to Test button
3. Reconnect the 24 V battery connector
4. LED indicator should show steady Green or Amber

TESTING OF CONNECTED LOADS

Lamps in all emergency lighting fixtures connected to the CBS panel may be tested at any time by depressing the TEST button located on the side of the enclosure, causing each fixture to operate in emergency mode as long as the button remains depressed. Lamps can be checked visually during this period. Alternatively; (a) AC power to the panel may be interrupted by qualified personnel to allow a comprehensive check by one person of all connected loads, or (b) the Annual Test may be activated as described above.

FAILURE MODES & CORRECTIVE ACTIONS

Battery State Alarm (FLASHING RED): One or both batteries' terminal voltage has dropped below 10.5V in less than 90 minutes since loss of AC line power.

CORRECTIVE ACTION: Replace BOTH Batteries

NOTE (1) To avoid unnecessary replacement, make sure the batteries have completed their full charging cycle.
(2) Always replace both batteries, not one. Low voltage in one battery may affect the second battery.

Transfer Switch Alarm: Failure to transfer connected load to battery power when AC line power fails.

CORRECTIVE ACTION: To confirm the fault code is correct, reset the system by depressing PUSH TO TEST for approximately 5 seconds. If the error returns, the circuit board must be replaced. Note the SERIAL NUMBER of the CBS system and contact the factory.

Charger State Alarm: Battery charge current has fallen below a threshold value.

CORRECTIVE ACTION: Same as Transfer Switch fault.