



PB-830-2 Call Button (Panic Button) Operational Description

The PB-830-2 panic button is a small, lightweight push button unit worn by patients and caregivers and is designed to generate a panic event in the area monitoring system when an alarm is activated.

The PB-830-2 comprises a printed circuit board (PCB) which includes an RF transmitter module with an integral antenna and a microcontroller that controls its operation. The PB-830-2 is powered by two 3V lithium batteries.

After turning the unit on, the PB-830-2 sends three 5ms transmissions with a 150ms interval separating transmissions. After which, one 5ms supervision signal is sent per hour.

In the event of an alarm, the PB-830-2 transmits a sequence of "Strong" and "Weak" signals shown in the diagram below until manual reset is performed. Each sequence of signals is separated by a randomly chosen interval of 9-11 seconds.

