

Operation Description

Wireless Smoke Alarm

SD4-MC is a 3VDC powered Wireless smoke alarm designed for use for Hearing Impaired and Blind. The System Sensor Photoelectric Smoke Alarm detects smoke using a light scattering principle with infrared light to measure the amount of smoke in the chamber to produce an audible alarm, and transmit a 418MHz Signal to a pre-programmed Medallion series receiver. The chamber is sampled every 10 seconds. The readings are converted to digital format for processing and storage by a microcontroller. It has a built in sounder and a mechanical test switch. The SD4-MC has a green LED to indicate standby within proper sensitivity, and a red LED to indicate alarm, maintenance, and low battery. During power up, the detector will blink both the green and red LEDs together to indicate power while initializing its status. Field sensitivity can be measured using the optical sensitivity reader by pointing it at an oval near the word "paint" on the detector housing.

The SD4-MC will transmit a coded signal when the Smoke Detector is in Alarm Mode. Receiving Medallion Receiver will decode alarm Signal. If receiver has been programmed with SD4-MCE address unit will Display Fire Alert Led, Flash the LED Strobe, and vibrate the optional Bed Shaker. Receiver will continue to Flash and Vibrate as long as the Detector is in Alarm.