

Operational Description

Project Number: 01071-10

Prepared for:

Core Technology
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By

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TYPE CERTIFICATION

418 MHz Home Security Transmitter
Door/Window Sensor
Model Number XDS125

THEORY of OPERATON

Core Technology
418 MHz Home Security Transmitter
Door/Window Sensor
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The unit is activated in one of two ways, by and external event or by an internal timer. In the case of an external event, such as the opening of a door or window a switch is tripped. This switch wakes up the PIC. The PIC will also be activated by the internal timer timing out.

The PIC generates a unique code for the sensor and modulates the 418 MHz SAW oscillator with On-Off Keying.

Every 120 seconds the PIC wakes up and sends just the sensor number to let the system know the sensor is still part of the network.

PIC clock rate, 2 KHz.