

# CM2202N Transmitter

## 1.0 Description

The CM2202N Transmitter is a battery-powered device using 2 BR1225 3V lithium batteries in parallel. The transmitter is OOK modulated at a data rate of 4800 bits/sec by the PICF635 processor on a nominal carrier frequency of 916.5 MHz. The transmitter is frequency stabilized using a SAW. The CM2202N transmitter is programmed to transmit a data packet every 6 hours in a random interval. Test packets are transmitted when the test button is pushed. When the SENSOR signal goes high alarm packets are transmitted in rapid intervals. Each unit is programmed with a unique electronic serial number (ESN).

## 2.0 Operation Procedure

**For test purposes**, the units provided are programmed to operate as follows.

- 2.1 Install Batteries making sure the + side faces up.
- 2.2 Pressing SW1 button once will place the transmitter in the CW mode.
- 2.3 Pressing SW1 again will place the transmitter in a pulse mode.
- 2.4 Pressing SW1 a third time will turn the transmitter off.

## 3.0 Interface

J2-1 GND

J2-2 SENSOR input and VPP used for programming the processor

J2-3 POWER to Sensor board and PDAT programming pin

J1-4 PCLK programming pin

J1-5 VDD

Push button

## 4.0 Label

The FCC ID will be laser printed on the shield as indicated on the assembly drawing using 8.5 font.

## 5.0 Warnings

Batteries should be installed with + side up. Batteries installed backwards will not hurt the unit but the unit will not operate.