

### MCS-700 operational description

The MCS-700 is an indoor or outdoor wireless siren of an intrusion detection system. The siren interacts with the Powermax+ intrusion/burglar alarm control panel. The siren activates its sounder, activates its flash light (strobe light, every 1.5 seconds) and acknowledges its activation to the PowerMax+.

The Powermax+ alarm state is triggered by an intrusion detector sensing an intrusion and sends a message to the control panel.  
The control panel verifies the message if approved it send an alarm signal to the MCS 700.

The MCS 700 has two "types" of similar messages whose duration is 100 msecond which are sent under different circumstances.

1. Every hour a supervision message is sent to the Powermax+
2. Upon receipt of an alarm signal the MCS 700 returns a message received "hand shake signal".

The difference between a message originating from the Powermax + and the MCS 700, is that the MCS 700 message consists of 72 bits while the one from the Powemax + is 88 bits.

Note : the duration of the message is preprogrammed and can not be changed.

The wireles siren trasmits a signal which consist of a message + preamble.  
In th message , a bit 0 is 700usec ON and 350usec OFF, the message has 88 bits, the worst case is 83 zeros and 5 ones.

The total duration of the preamble is 54.8 msec

The total ON during the peamble is 38.8 msec