

## ***Theory of Operation***

The Exciter is a 125 kHz transmitter which is powered from, either 24VAC or 220 VAC/50Hz - 24VDC adapter, 48VDC or PoE source.

The Exciter can be connected to the AeroScout server for dynamic configuration and monitoring or can act as standalone Exciter with no connection to the server.

The Exciter is a 125 kHz ASK modulated Beacon which transmits the same message in a preprogrammed transmission interval. The messages that the Exciter transmits cause the AeroScout tag to wakeup and transmit a reply message to the AeroScout location Receivers. The Exciter includes an LF detection circuit which monitors the Exciter operation and report the status to the AeroScout server.

In order to cover large gates or chokepoints several Exciters may be chained one to the other.