

The device operates in a master/slave configuration with a transponder tag. In all cases, the interrogator acts as the master unit initiating commands from the transponder. The interrogator must first wake up the device, which is accomplished by sending it a 31.25 kHz sub-carrier tone followed by a 0.1-second 10 kHz sub-carrier tone. Once, the device has been successfully woken up, it enters ready state or receive mode awaiting commands from the interrogator. The tag will stay in ready mode for 30 seconds after the last command received, unless otherwise the interrogator commands it to sleep.

The interrogator responds to communications from the transponder in a data packet form that consists of FSK modulated data at 27.7 kHz rate. The frequency deviation is carrier +/- 50 kHz.

Data packets do not exceed 27 ms per packet with no more than one packet per 100ms.