

TRXS-830 Ankle Tag Operational Description

The TRXS-830 Ankle Tag is a small unit worn on the ankle of the monitored offender.

The Ankle Tag is a battery-operated unit and comprises a printed circuit board (PCB), which includes a RF transmitter module with an integral antenna, and a microcontroller that controls its operation.

The TRXS-830 has one RF channel. It is 318 MHz carrier with FSK modulated data.

The Tag is turned on and off by a probation officer, using an electronic key which is temporarily attached to the tag strap's pins.

When it is turned on, the Ankle Tag transmits a 2mSec identification & status signal and then it stops transmission. As a public life safety equipment the Tag transmits the next signal 18-22 seconds after the last signal transmission – any interruption in the reception of the transmitted signal (which might indicate an escaped offender) may put public life at risk – the central monitoring system sends an immediate alert to the probation officer or to the sheriff in-charge, who should take immediate action to ensure public safety.