

TXS-700 Home Arrest Tag **Operational Description**

The TXS-700 Home Arrest Tag is a small unit worn by a monitored offender either on his wrist or on his ankle.

The home arrest Tag is a battery-operated unit. The tag comprises one Printed Circuit Board (PCB) which includes a RF transmitter module with an integral antenna, and a microcontroller, which controls its operation.

The TXS-700 has one RF channel. It is 318.0 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.

While turned-on the Tag transmits a 5mSec 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, which should take immediate actions to ensure public safety.