433.92 MHz Identification

Hardware Description

tres is the brand name for a new line of 433 MHz RFID Receivers and Transponders (Tags). This is a TTO (tag talk only) Radio Frequency Identification system whereby the **tres** Tag transmits its data at factory set intervals to the Receiver. The Receiver contains no RF transmission functions.

Receiver

The Receiver provides RF to digital translation of the signal produced by the **tres** RF Tags, when placed in the proximity of a Receiver. The Receiver detects and filters data bits emitted from compatible RF Tags then converts bits into the associated computer format of ASCII RS232/RS485, Wiegand, or Ethernet communications protocols. Advanced error detection algorithms provide error-free operation.

Unlike similar systems, the Receiver does not need an external Antenna, although external Antennas are available to increase range. The PCB etched Antenna receives the Tag's transmission. This saves greatly in installation time and costs. The Receiver can also operate on variable power sources of 7 to 24 VDC. Connection to the Receiver is made using low-cost shielded twisted pair cables (22 AWG up to 21 feet, above 21 feet 16 AWG is recommended) and easy to use angle entry screw terminal connectors further simplify installation.

Tags

Standard Tags transmit their data in a fixed time interval of 2.0 seconds. Their overall time of transmission is 600 microseconds.