

**PRODUCT AND OPERATIONAL DESCRIPTION:  
LONG RANGE SYSTEMS T1200 WAIT REDUCER  
PAGER TRANSMITTER**

1.0 General Description

The Long Range Systems T1200 Wait Reducer Pager Transmitter is a handheld device used for transmitting paging calls to small (belt worn) battery powered pagers. This device is intended for use by restaurants to inform patrons that their table is ready. Only one T1200 is used in each system configuration. The T1200 is battery powered, but can also operated from an AC to DC power adapter.

To call a pager, the operator inputs the pager code into the T1200 from the front panel then presses the CALL button. The code is then transmitted to the pager. The T1200 is in 'sleep mode' most of the time and is only active when the front panel keys are pressed and the code is transmitted. After the code has been transmitted, the unit goes back into sleep mode automatically.

2.0 Wireless Description

Wireless transmission for the T1200 is compliant with the requirements of Section 15.231 of the Rules. The EUT transmits at 448.00 MHz and uses AM modulation for the code stream. A simple chipset is used for code and modulation construction and a Motorola Synthesizer (MC13176) is used as the RF source and modulator. A transimpedance amplifier is used to drive the integrated antenna. A 3 inch monopole (which is permanently attached to the main board) is used as the antenna. No operator tuning or alignment of the T1200 is possible or required.

Due to the power limitations of Section 15.231, the range of the T1200 is limited (a few hundred feet maximum). This is satisfactory for the intended use of the device. The frequency of transmission was determined to prevent interference with other (long range pager services).