Reader Calibration

Figure 2.0 shows the Reader Test Utility which is used to calibrate the power and squelch levels of the Reader. For each antenna port, there are 30 configurable squelch levels. Each squelch level can have a value of 0 to 1023. Each of these values will result in a squelch level that will have a 30 dB range and can be set for a minimum level of -65 dB. Each value is determined during calibration, and the set squelch table command is used to store the squelch levels into non volatile memory in the Reader.

Each power level can have a value of 0 to 15. Each of these values will result in a power level that will have a 10 dB range and can be set between 100mW to 1 Watt. Each value is determined during calibration, and the set power table command is used to store the power levels into non volatile memory in the Reader.

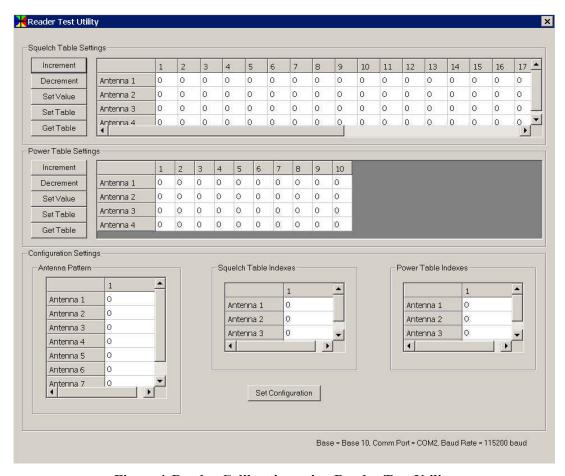


Figure 1-Reader Calibration using Reader Test Utility

Reader Maximum Transmit Output Power Adjustment

Potentiometer R14 is to be used only by a qualified technician to adjust the transmit output power output level of the Reader. Clockwise rotation of the potentiometer adjustment screw decreases the transmit power level output; counterclockwise rotation increases the transmit power level output. The power level is set for a maximum output of 1 watt out of the Reader Antenna Port with zero power attenuation selected.