

Valquest Systems

MiniMax Operations

1. **Voltage Connections** - The MiniMax is shipped with Black (120 VAC Line) wire connected to upper left jaw pin and White (Neutral) wires connected to the side meter base tabs. These side tabs only make contact when the unit is pushed into a standard meter base box.

To modify these connections remove the clear plastic cover by depressing the four keeper tabs. The reconnect the internal white and black wires to the quick disconnect connectors as needed making sure that reconnection will put 120 VAC (not 240 VAC) across the black and white wires.

Also make doubly sure that the white wire will be connected to neutral. This is the potential which will show up at the tip jacks.

2. **DIP Switch Settings** - Using a small screw driver or other tool, set the DIP switches according the chart below. The averaging period is the amount of time that the MiniMax uses to average voltages before recording them as a min or max.
3. **Min-Max Voltage Reading** - Connect a voltmeter in DC mode to the Red and Black tip jacks. The voltage will change back and forth between the minimum and maximum recorded voltage. These voltages can be interpreted by multiplying the reading by 10 and then adding 100 volts.

Example: 2.24 volts DC would indicate 122.4 VAC.

4. **Min-Max Reset** - Wearing gloves, use a knife or other tool to short between the two voltmeter probes while they are plugged into the MiniMax. This causes the MiniMax to reset.

The two tip jacks should be at or close to neutral potential. This is dependent upon the internal white wire being connected to the neutral jaw pin or side tab.

MiniMax Averaging Periods

