

precise AC line reference, thus avoiding system to system interaction. All Ultra\*Max systems are synchronized to the Zero Crossing of their AC power source with some internal capabilities to phase shift from that reference. However, there are no system to system interconnections for precise synchronization of systems. The Ultra\*Max Phasing Kit uses an AC powered, 900 MHz transmitter to send a synchronization signal to a battery powered 900 MHz receiver. The transmitter uses an internal Zero Crossing detector and phasing shifting capability to provide flexibility with existing systems. A microprocessor is used to generate a multi phase signal for use in multi phase power environments.

The Transmitter is used as follow, first the transmitter is connected to a near by power source where it synchronizes to the zero crossing of the local power source. The output of the transmitter is then adjusted by turning either the course or fine adjustment screws so that matches a near by "reference" system. Once the Transmitter is adjusted it is left until all near by equipment has been compared or adjusted to is output reference.