OPERATIONAL DESCRIPTION

The SLW5 is a wireless weather station operating on a 900 MHz bi-directional frequency. Maximum range is 1500 feet (457m) Line of Sight (LOS). The SLW5 is operable with all SmartLine® models and firmware versions. The SLW5 and SLHUB-RF-5 are "pre-paired" or synched at the factory for your convenience.

The system hops to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency is used equally on the average by each transmitter. The receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

The transmitter normally transmits all information in one hop. The system is designed to stay in sequence so subsequent transmissions will be on the next hopping channel and does not reset to the initial channel. If forced into continuous transmission the transmitter conforms to all requirements and uses all channels equally.

The hopping sequence was generated randomly. Here is the channel sequence for the 50 channels used:

14, 4,19,41,25,35,38, 6,11, 1,

23,26,45,47, 5,17,39,10,15,28,

9,30, 7,44,34,20,22,21, 8, 0,

32,16,43,42,36,49,29,18,46,40,

31,48,37, 2,13,33,27,12,24, 3

The system does not use any type of coordination system.