Micro-Trak Wireless Remote Functional Description

The Transmitter comprises an encoder which accepts data from the five pushbuttons on the transmitter case, paired with a Linx Technologies 418Mhz transmitter module. When any of the buttons is pushed, the unit transmits the pushbutton status in an 8-bit data packet via Carrier-Present Carrier-Absent (CPCA) modulation, also referred to as On-Off keying (OOK). The Receiver comprises a Linx Technologies 418Mhz receiver module paired with a decoder to restore the pushbutton status to a parallel format, one line per pushbutton.

The receiver outputs the pushbutton status to a Micro-Trak control console. The control console includes a duplicate pushbutton or switch for each of the pushbuttons on the transmitter, so the selected functions can be controlled either locally at the control console or remotely via the wireless subsystem (IFF the control console is turned ON). The functions of the keys are as follows:

RUN key initiates turns on a valve or other device that controls flow.
HOLD key turns off the valve or other device to stop flow.
INC key increases the amount of flow (up to the system limit).
DEC key decreases flow.
BLAST key is used to initiate a specific rate of flow for a specific length of time as programmed into the control console.

The idea is to allow the customer to test his overall system by using the wireless subsystem. For instance, the nozzles on a sprayer could be checked to verify correct pattern and flow delivery without having an additional person running the control console.