

ICD-600

1) Name and address of manufacturer/applicant

Hunter Industries Incorporated
1940 Diamond Street
San Marcos, CA 92078

2) FCCID: M3UICDDEC

3) FRN Number: 0006-7720-65

4) Equipment Specs:

- Frequency of operation: 125kHz
- Frequency Tolerance: +/-1.25kHz
- OOK Modulated

5) Operating Description

The ICD-600 is a solenoid actuating device for irrigation systems. It consists of a linear power supply, microcontroller, outputs to control an irrigation solenoid and a 125kHz On/Off Keying (OOK modulation) transceiver. The microcontroller uses a 4MHz ceramic resonator as a clock source for the execution of instructions. When the communications function is activated, the RF transmitter will be On/Off Keying for up to 625mS during which data is sent, then shut off for at least 50mS. The max duty cycle is therefore 93%. The data consists of a preamble, address field, command byte, data fields and checksum. The address field is provided for security, and the data field contains the information for testing or monitoring of ICD-HP.

Variations: In addition to the ICD-600, which is a six station unit, there are also 1, 2, and 4 station units. These model numbers are ICD-100, ICD-200, and ICD-400 respectively. The difference between the other models and the six station unit that was tested, is that the other models circuit components depopulated in the "Circuitry to Solenoid Outputs" block shown below. The ICD-600 is the most populous unit.

6) Block Diagram

