



To Whom It May Concern:

The Davis Instruments Corp. 7624/7625 Wireless Repeater has the following characteristics:

RF rating in Watts: < 1mW

Frequency Range: 916.5 MHz \pm 200 kHz

Operation: The Davis Instruments Corp. 7624/7625 Wireless Repeater extends the range of other low-power compatible transmitters. Commonly, users place the Wireless Repeater between the 6320 Vantage Pro ISS and the 6310 Vantage Pro Console. The repeater receives weather data packets and retransmits them using the same OOK modulation scheme and frequency as the received signal. It can repeat up to 8 different transmitters; the minimum transmission period is every 2.5 seconds.

Circuitry: The 7624/7625 Wireless Repeater uses surface mount components surrounding a PIC microcontroller running at 76 kHz and a TR1000 transceiver chip made by RF Monolithics.

Antenna & Ground System: The 7624/7625 Wireless Repeater uses a $\frac{1}{4}$ wavelength antenna with no ground system other than the circuit board.

Block and circuit diagrams are supplied as separate files.