

General Description of Weight Scale (2100):

The transceiver board in the weight scale is very similar to the transceiver board in blood pressure monitor and CPH200 Hub. It operates at 915.05 MHz and uses Frequency Shift Keying (FSK) modulation to transmit data. The transceiver microcontroller is usually in the sleep state, but has a running internal Real Time Clock (RTC). This sleep state can either be interrupted when it receives new data reading from the weight scale or when a previously pending reading needs to be sent to a CPH200 Hub. All new data readings sent by the weight scale are saved onto the EEPROM by the transceiver microcontroller along with the current (real-time) timestamp. After the transceiver has received new data readings it uses a custom RF protocol to transmit the data to the CPH200 Hub.