

### General Description of the Hub (101):

The CPH200 Hub acts as an interface between the devices and the server. It is made up of a transceiver, a communication controller (KOMP) board and an Internet modem (iModem). The transceiver in the hub is very similar to the transceiver in the devices, except that it is always in the receive mode. When a device transceiver has data to send it will initiate a handshake sequence with the hub and if the handshake is successful then the device will transmit the data to the hub. The data received by the hub transceiver is sent to the KOMP board that in turn saves the received data to an EEPROM. The KOMP board changes the data format in so it can be sent over the Internet using an iModem. After that, the iModem dials into the modem bank and establishes connection with the server. After it is connected with the server the KOMP board uploads the data onto the server.