

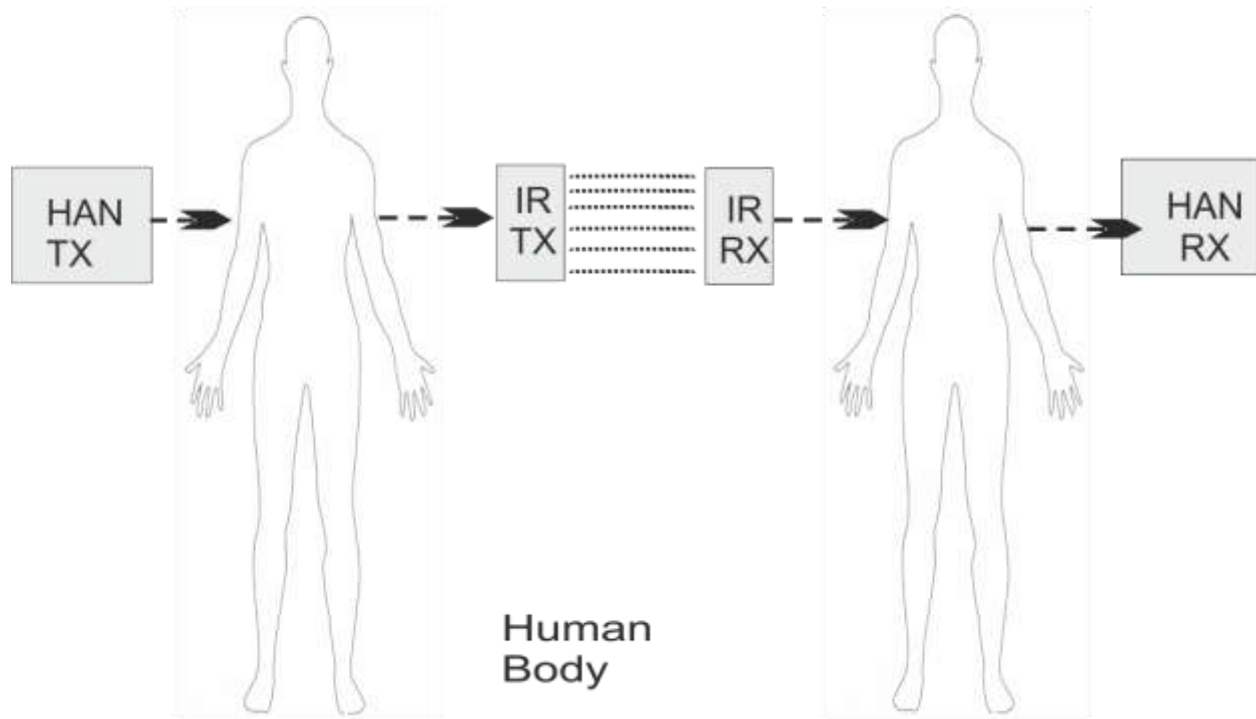
Human Area Networking

This project is a new human area networking technology that uses the surface of the human body as a safe and network transmission path. For this communication uses the minute electric field emitted on the surface of the human body.

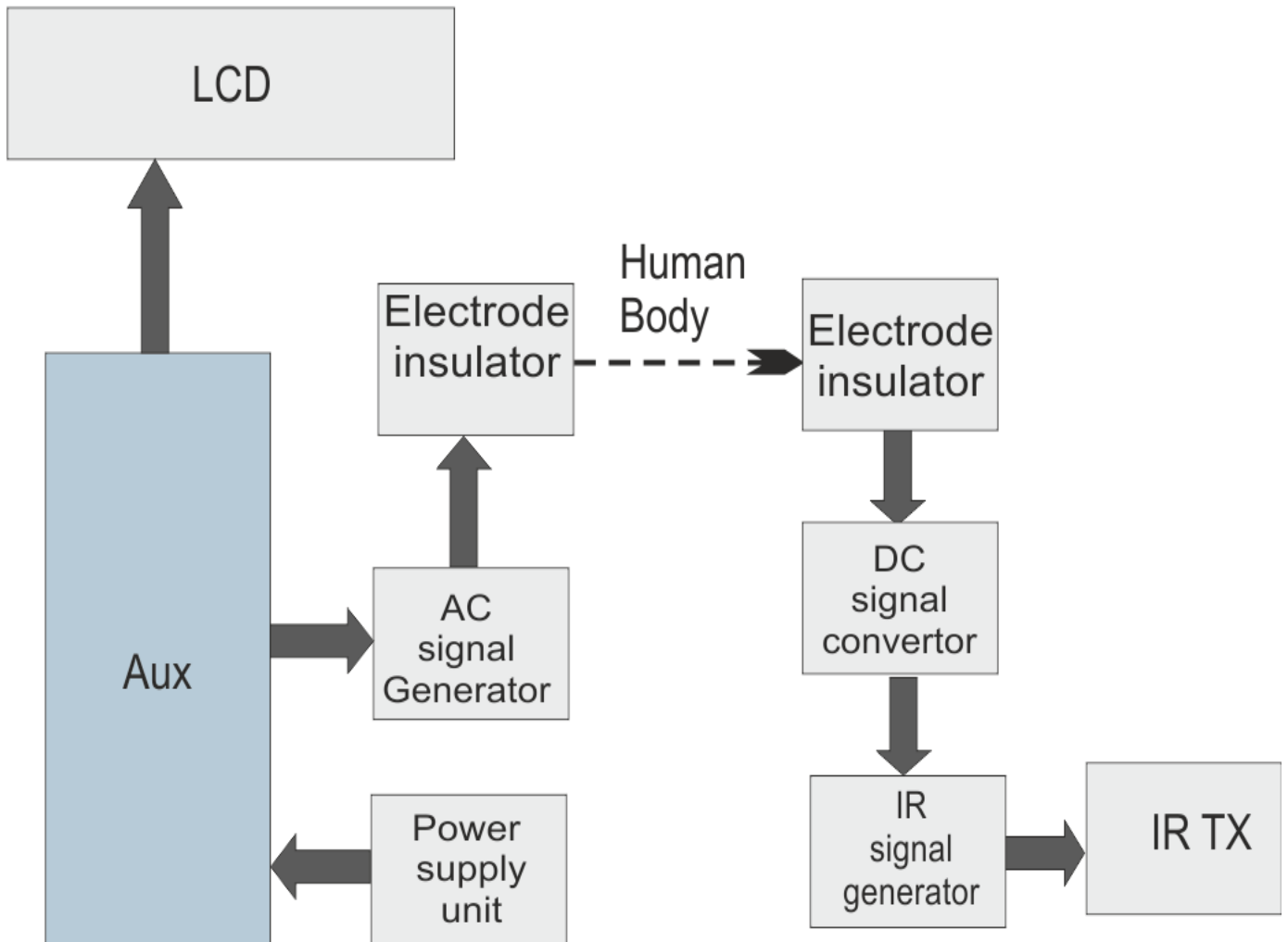
Technically, it is completely distinct from wireless and infrared. A transmission path is formed at the moment a part of the human body comes in contact with a transceiver. Physically separating ends the contact and thus ends communication.

This communication starts when terminals carried by the user or embedded in devices are linked in various combinations according to the user's natural, physical movements. Communication is possible using any body surfaces, such as the hands, fingers, arms, feet, face or legs.

Functional Diagram for HAN

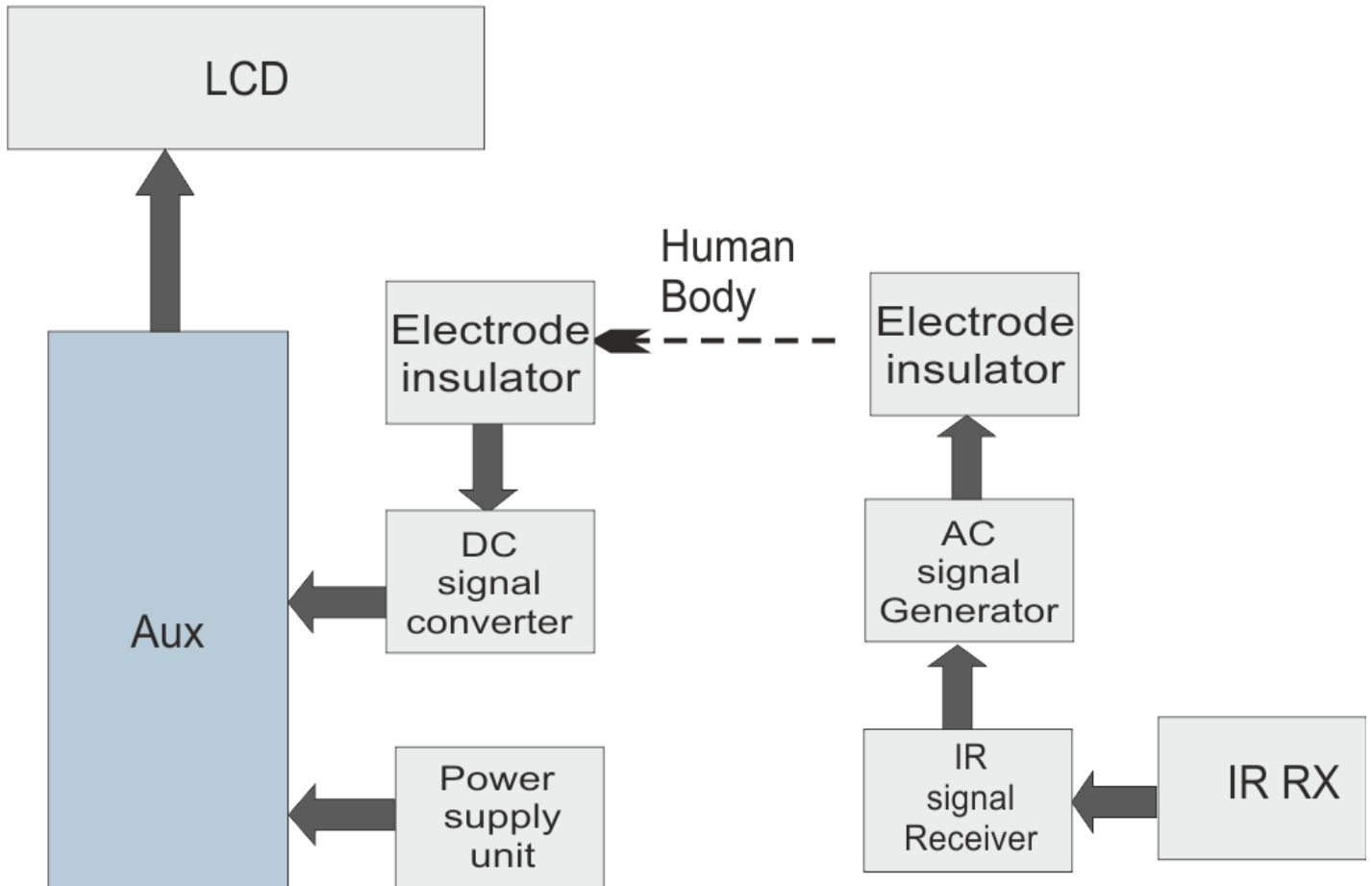


Block Diagram for HAN TX



This block is to generate the data which is to be transmitted; the transmitting data is generated and displayed through LCD by microcontroller. The generated data is given to the ac signal generator which converts the signal which the human body can transmit as a medium. The human body is connected to the gadget through the electrode which can be fixed anywhere in the human body. On the other side another electrode is used to receive the data through human body and converted to digital signal. The converted digital signal is transmitted through IR to the HAN RX.

Block Diagram for HAN RX



This block receives the transmitted signal through IR receiver and data is given to the ac signal generator which converts the signal which the human body can transmit as a medium. . The human body is connected to the gadget through the electrode which can be fixed anywhere in the human body. On the other side another electrode is used to receive the data through human body and converted to digital signal. The converted signal datas are received by the microcontroller and the received data will be displayed through LCD.