

ABSTRACT

In this project, human body temperature monitor by telemetry system provides the facility for continuously monitoring of human body temperature and simple health information. Precision measurements of body temperature with voltage output or current output temperature sensor make in temperature range from 25°C to 50°C. Signal conditional process shifts the analog signal to the level that compatible for next process requirement. PIC is the central processing unit to collect the analog signals. Analog to digital conversion (ADC), liquid crystal display (LCD) and warning light is controlling under PIC. RF modules are utilizing associate with 8 programmable data bits of remote control coder. This RF module works with Amplitude Modulation (AM) method with ASK modulation technique. The programmable address/data is transmitted via RF module with a simple antenna. This telemetry system is a convenient for recording and analysis in remote region computer. Parallel port functions as the communication port at receiver side. Microsoft's Visual Basic is utilized to access and read data from parallel port. Visual Basic furnishes the needs for different formats of digital readout, line graph plotting, simple health information and alert function.

Keywords: Human body temperature monitoring, telemetry system, PIC