

Abstract Details

Title: Module of Measuring Temperature and Relative Humidity

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Abstract: The module was designed using PIC16F877A microcontroller, PIC16F877A microcontroller is the heart of the whole system which reads the digital equivalent of relative humidity (RH) and ambient temperature (T) with the help of on chip 10-bit analog to digital converter (ADC) and capture compare pulse width (CCP) modulations. The LM 35 sensor is used for measured ambient temperature and HS1101LF sensor is used for measured the relative humidity. The measured parameters are displayed on LCD 16x2, sent to PC server using serial connection (RS232). The Pc server software is designed as the graphical user interface (GUI) using C sharp Language. It receives the measured parameters, decoded, display it on (GUI), stored in data base file, secure data base and sends to clients through TCP/IP Protocol.

Keywords: PIC16F877A microcontroller, PC server, clients, graphical user interface, data base file.