

基本功能：  
利用51单片机作为主控芯片，模拟量输入范围直流0v-5v。模拟量经A/D（ADC0809）模数转换芯片，把模拟量转换为数字量输入到单片机的P0口，再由单片机控制LCD1602液晶显示模拟量输入的电压值。

The diagram illustrates a microcontroller-based voltage measurement system. The AT89C51 microcontroller is configured with a 12MHz crystal oscillator and a reset circuit. The P0, P2, and P3 ports are connected to an ADC0809 converter, which is powered by a 5V supply and a 22k resistor. The ADC0809's output is connected to a digital display (LM016L) showing a voltage of 3.54 (V). A 1k resistor (RP2) is connected to the IN0 pin, and a 22k resistor (RP1) is connected to the P0.0 pin.

