

SPY FOR TWO TELEPHONE LINES

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ABSTRACT

The title of this project is Spy for Two Telephone Lines. The basic requirement for the project is to build a circuit which can be used to tap the telephone line to overhear the conversation between any 2 parties. Here the conversation between the 2 parties should be transmitted and the 3rd person should receive the signal and be able to hear the conversation simultaneously. In addition to that I have made the circuit to record the conversation, which can be controlled manually as well as the automatic pick up circuit.

The system consists of a ring detector circuit; pick up circuit, PIC interface and a voice recording circuit. The heart of this project is the PIC microcontroller (PIC16F877P). Once the receiver picks up the phone, it will directly go to the voice recording chip (ISD25120) to record the message. In addition to that, recording of the message can be stopped manually if needed, using the switches. Otherwise, after a few rings, the ring detector circuit will send a message to the PIC microcontroller in form of pulses, which will turn on the relay in the pickup circuit. The relay turns on the zener diode to bring down the voltage to pick up the phone automatically. The PIC is preprogrammed using the MikroC programming language. At the same time, the PIC will enable the voice recording IC (ISD25120) to start recording, which can be played back later using the switches in the circuit that are controlled manually.

Overall, this project was successfully implemented and has achieved all specifications required by the university. **To design Spy for Two Telephone Lines**

Keywords: Microcontroller, Ring detector, ISD chip, Relays, Zener Diode, MikroC, Pulses