

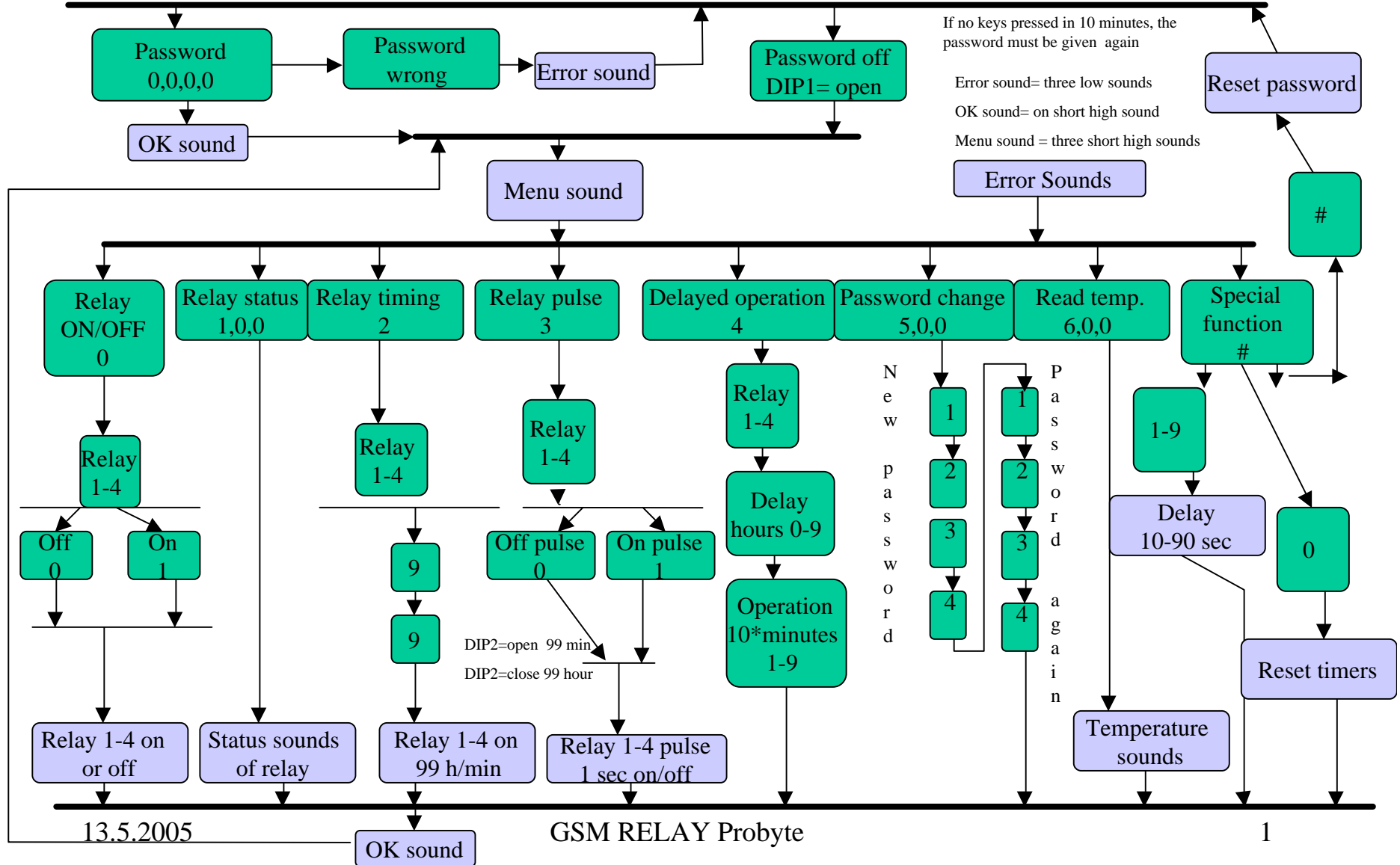


Numbers= phone keys

PROBYTE GSMRELAY FUNCTIONS

GSM

POWER ON



13.5.2005

GSM RELAY Probyte

1

Construction of GSM-relay

1. Check three parts according the parts list.

Note location of the LEDs (long wire is +), electrolytic capacitors, diodes, regulator, sensor and microcircuits

2 Connect first lower parts: diodes, resistors, microcircuits, socket and small capacitors

3. Then place the connectors, DIP-switch (note the direction), LM78L05 regulator and temperature sensor, trimmer, LEDs and electrolytic capacitors. Last solder the relays, ULN2003 and MT8870.

4. Cut wire from microphone to the earpiece to equal parts of the HF-set. Separate two colors wires from each other and burn the insulation off with hot solder (400 C) or gas lighter. Add solder to wires. This part needs carefully work. Connect both copper color wires to connector X1/2(middle pin is ground). Connect other wire from earphone to pin 1. Connect the wire from phone side to pin 3.

5. Connect an adjustable, current limiting power supply to terminal X2/7(+) and X2/8(-).

Adjust voltage first to 5 volt and limit the current to 100mA.

6. Measure voltage at test pins (S1). The voltage must be about 5 V when you increase the voltage 5->12V and the current about 10mA without relays. The relays remember their status after power failure. The current is 130 mA when all the relays are on.

7. Put the CPU to the socket and set the volume to maximum (P1 CCW)

8. Open DIP switches (DIP1 open = no password, DIP2 open = minute time)

9. Connect test pins at power up. All the relays switch on and off in one second interval. Sound is heard from speaker or earpiece. Sound remains until you open short circuit the test pins.

10. Switch HF-cable to your GSM phone, set keyboard sound to maximum and automatic answer on

11. Test the function 0, press 0,1,1 or connect relay1 on. Try 0,1,0 and 0,2,1 and all the other relays.

12. Test temperature reading 6,0,0. Adjust right temperature with POT3A.

13. Set a new password 1234 with 5,0,0,1,2,3,4,1,2,3,4. Set DIP1 on, press #,# (rest password timer). Test the password function. Test no delay #1 for ten second,. Test timer function 2120 (relay 1 on for 20 minutes).

14. Test pulse function 3,1,1 etc. Test delayed timer function four 4,2,1,2 i.e. relay 2 waits 1 hour then 3*10 minutes on. Switch DIP2 on and test hour timer to relay three: 2,3,0,1,0

