

Thingspeak

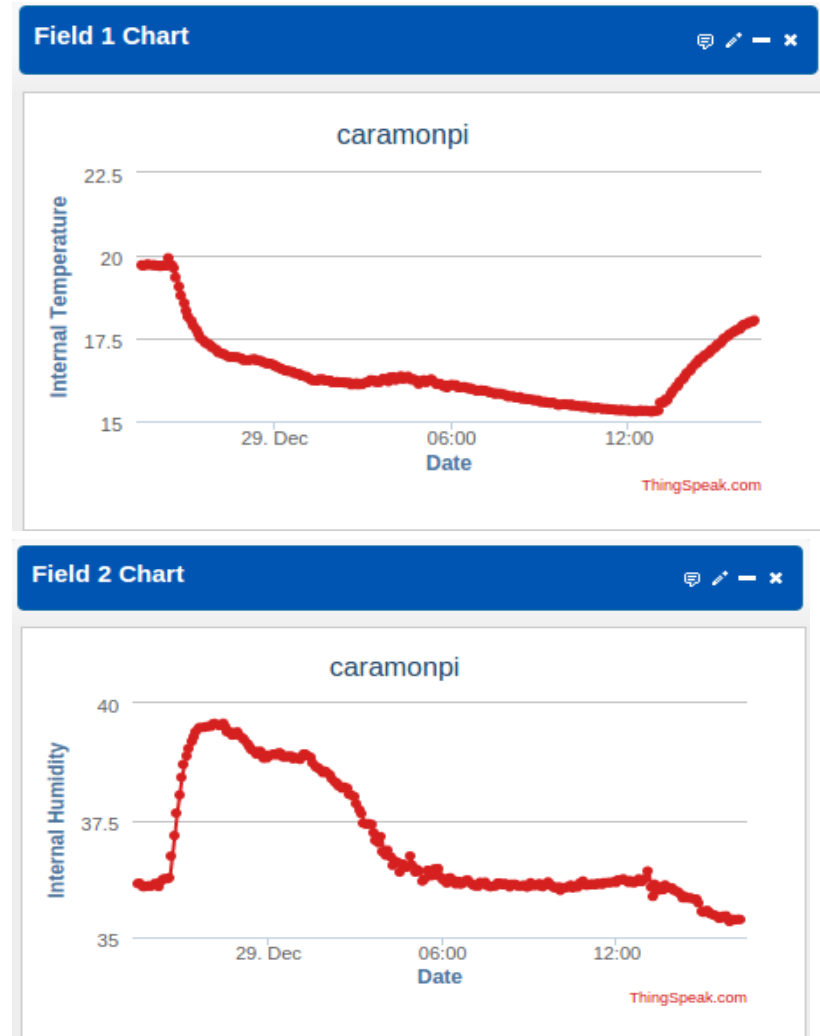
Channel info:

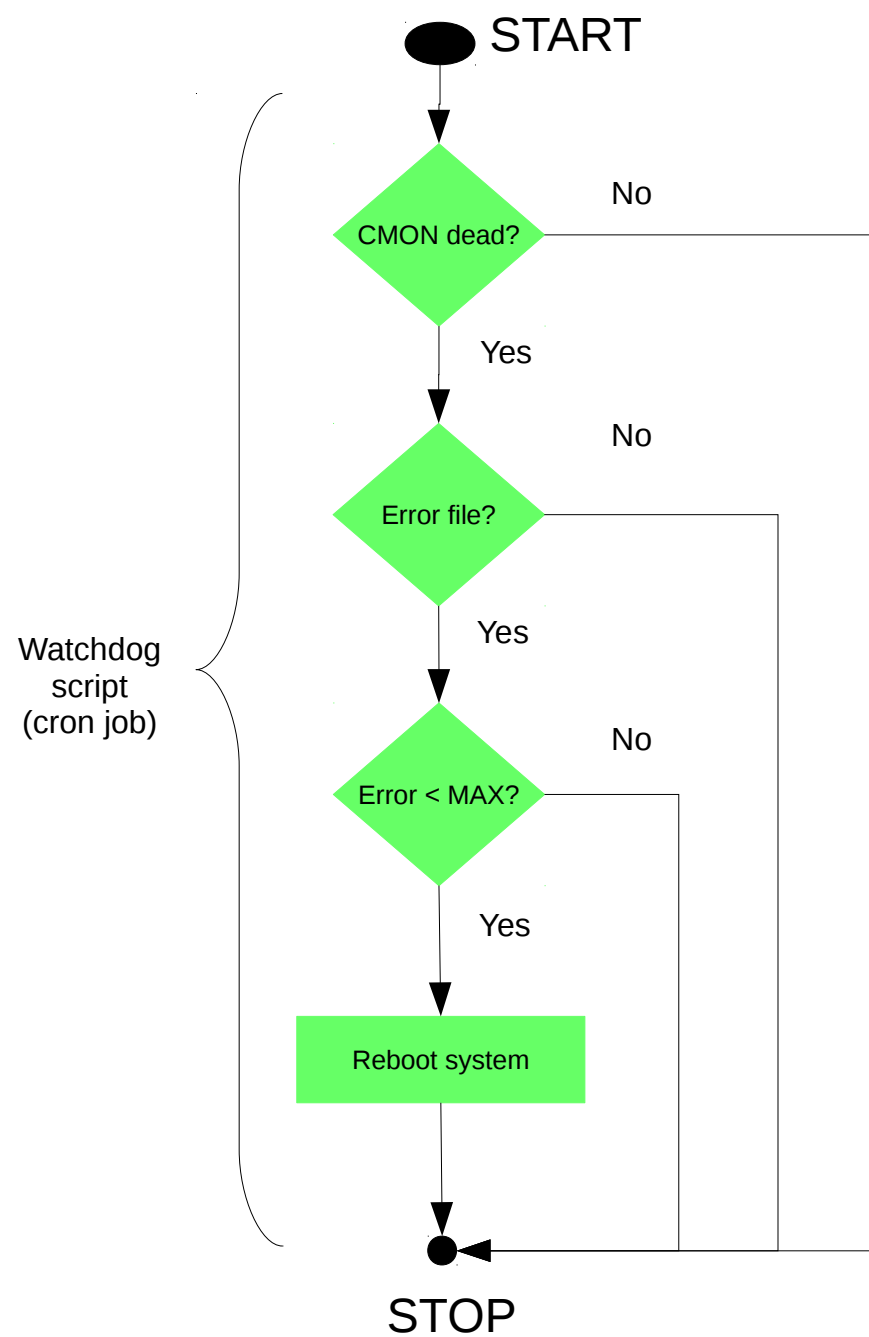
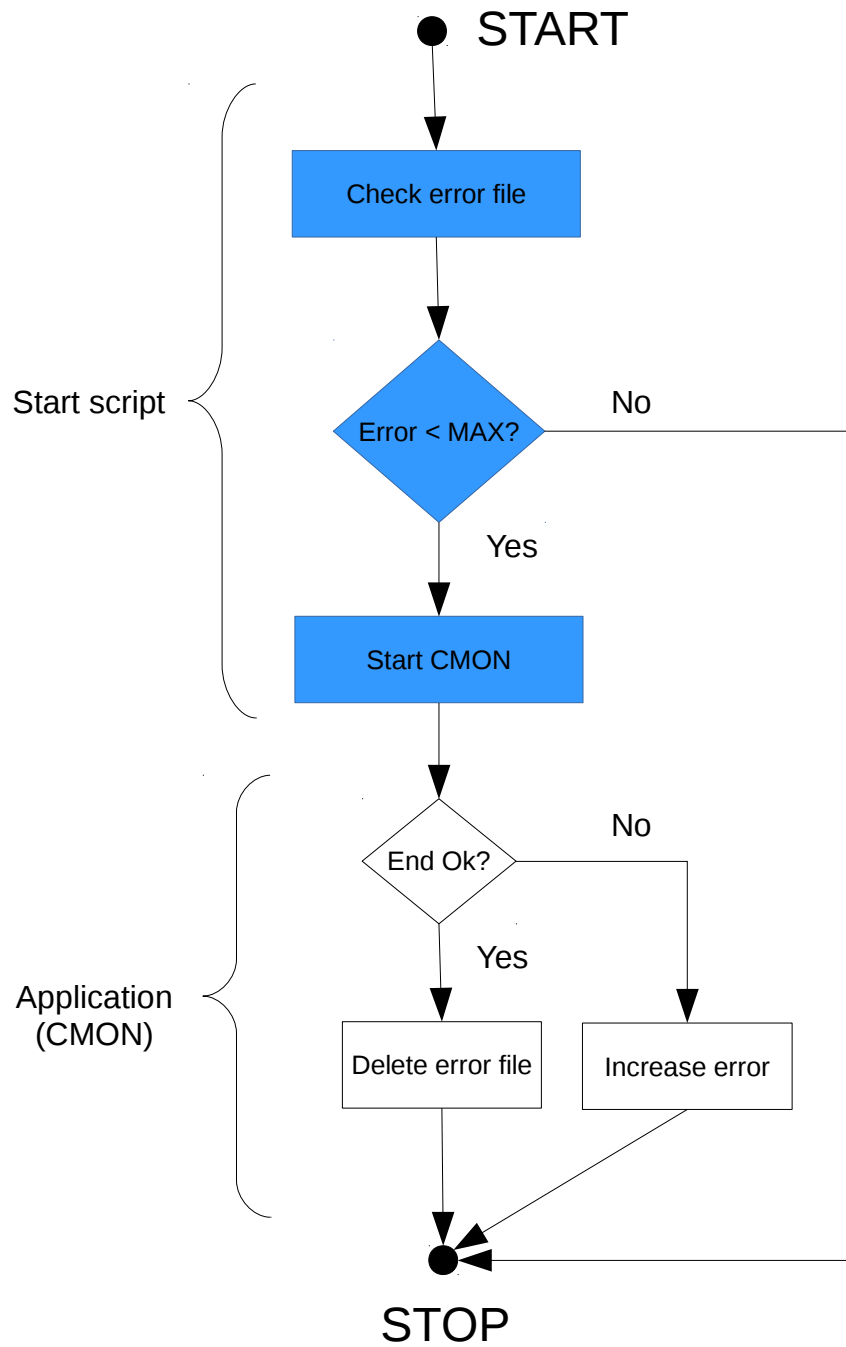
- Channel name: caramonpi
- Channel id: 75139
- Address: <https://thingspeak.com/channels/75139/>
- Write API Key: xxxxxxxx
- Read API Key: yyyyyyyy
- Field 1: Internal Temperature
- Field 2: Internal Humidity
- Field 3: External Temperature

Update channel:

```
curl --fail --silent --data \  
"key=<WRITEKEY>&field1=<VAL1>&field2=<VAL2>&field3=<VAL3>" https://api.thingspeak.com/update
```

Check return code: echo \$?



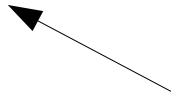


List active cron jobs

```
crontab -l
```

```
@reboot /usr/bin/weavedstart.sh
```

```
*/5 * * * * /caramon/cmon_watchdog.sh
```

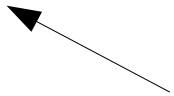


Script executed every 5 minutes

Disable cron job

```
crontab -e
```

```
#*/5 * * * * /caramon/cmon_watchdog.sh
```

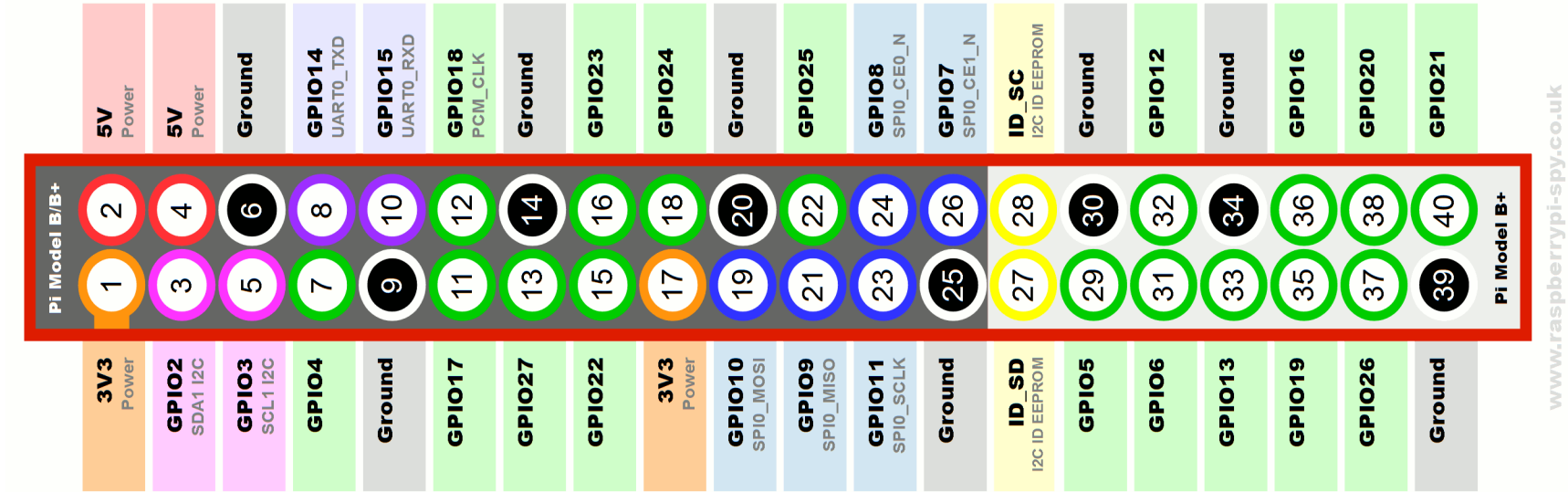


Commented out, script disabled

```
/etc/init.d/cron restart
```

```
/etc/init.d/cron status
```

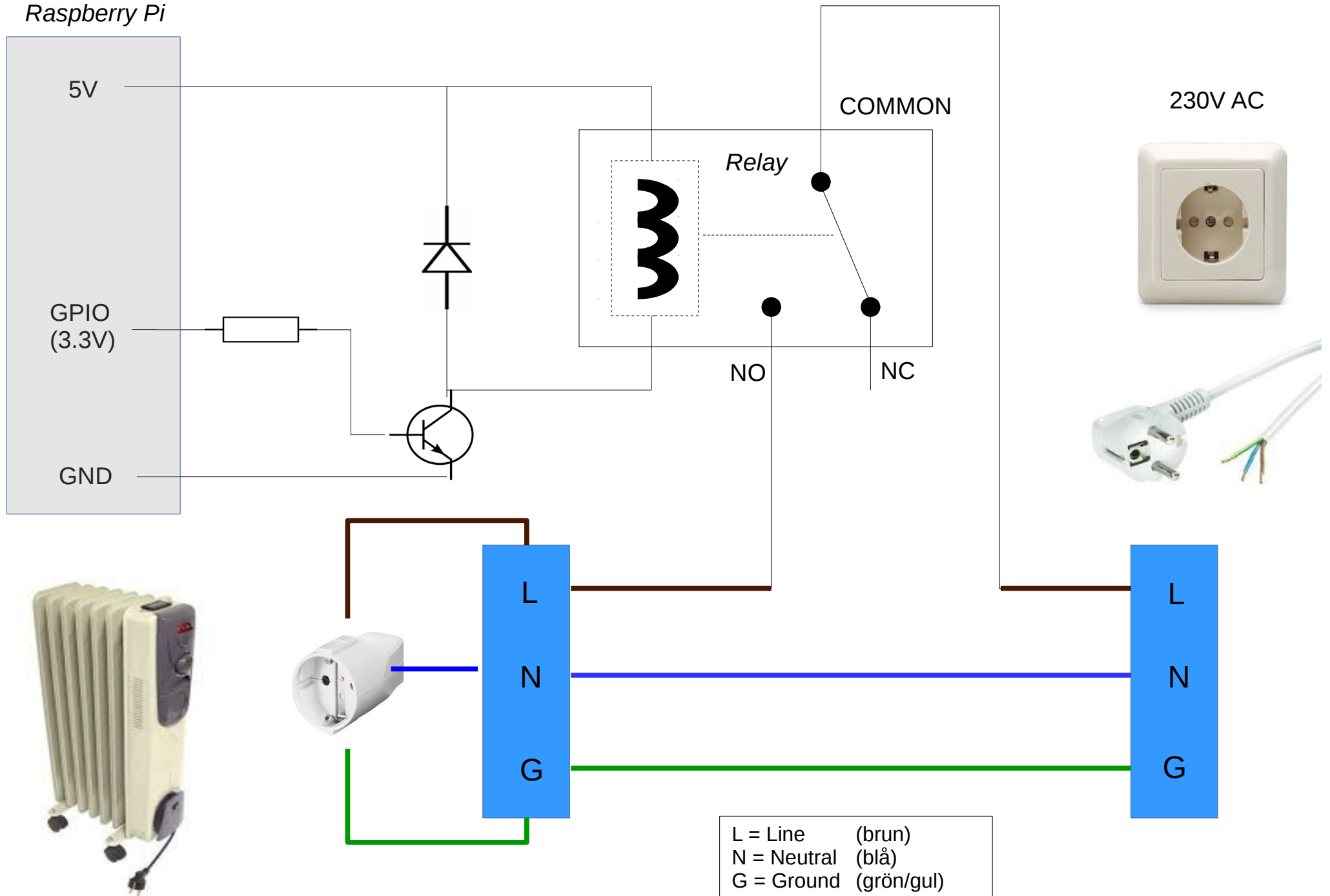
Raspberry Pi2 , Connector P1

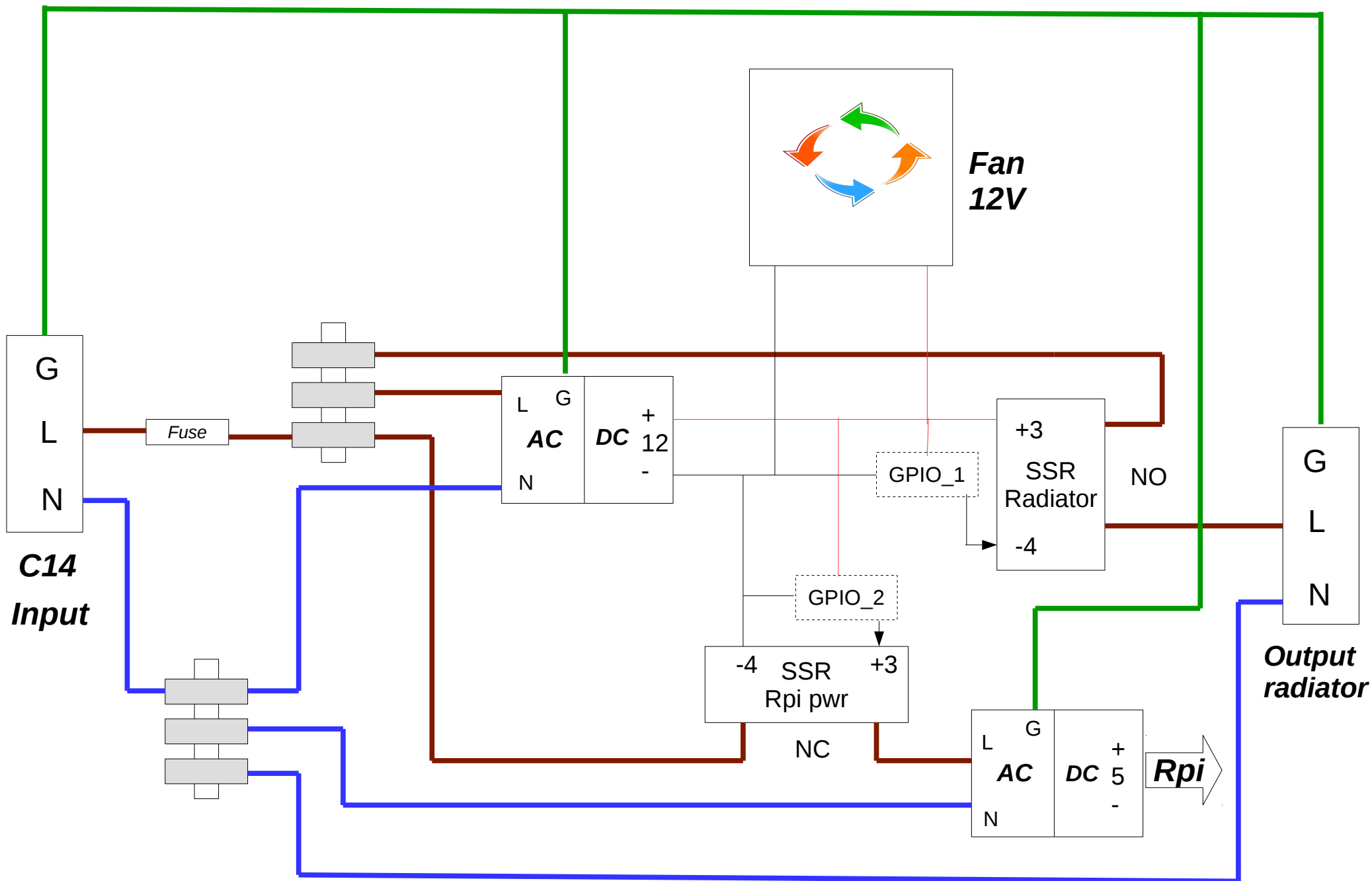


CMON,
GPIO

Pin (P1)	GPIO (BCM)	Direction	Description
03	2	-	I2C - SDA
05	3	-	I2C - SCL
08	14	-	RS232 - Tx
10	15	-	RS232 - Rx
11	17	OUT	LED (green) - Alive
12	18	OUT	LED (red) - Sysfail
13	27	IN	Normal (0), Inhibit (1)
15	22	OUT	Radiator control, SSR K1
16	23	OUT	WDI - Watchdog keep alive
18	24	OUT	WDE - Watchdog enable
22	25	IN	1-Wire

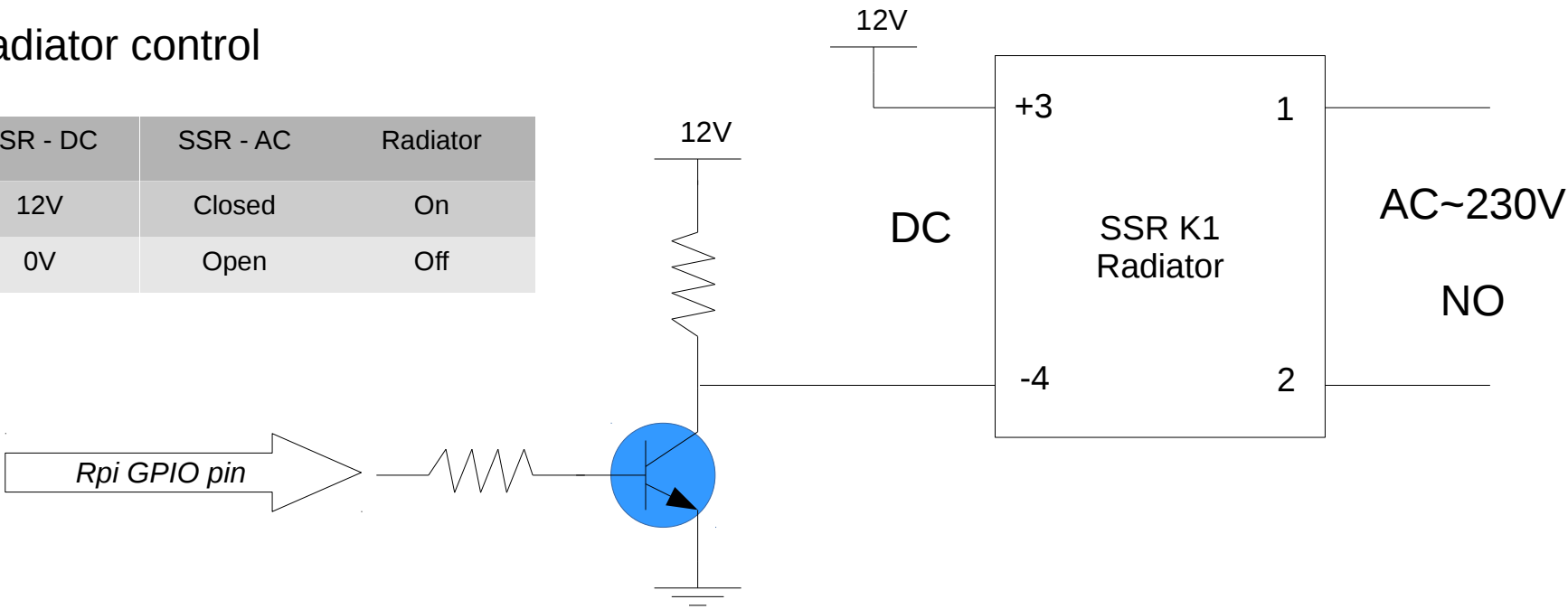
Raspberry Pi





GPIO_1 : Radiator control

Rpi - pin	SSR - DC	SSR - AC	Radiator
High - 3.3V	12V	Closed	On
Low - 0V	0V	Open	Off



GPIO_2 : Rpi 5V power control

NE555 OUT-2	SSR - DC	SSR - AC	Rpi power
High	0V	Open	Off
Low	12V	Closed	On

