_____
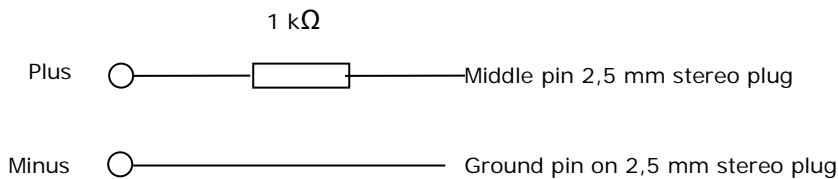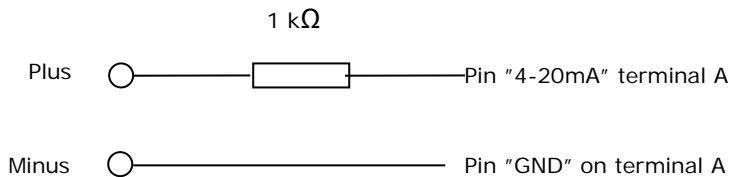
Sensor 4-20 mA

Ontech GSM 9025 and Ontech GSM 9035/9040 can measure current between 4 and 20 mA and report at request. Alarm levels can also be set and an alarm will be sent when the level is below or above.

Connecting the sensor to a Ontech GSM 9035/9040 is made with a 2,5 mm stereo plug. A resistor at 1 kΩ is connected to the middle pin. The current cable is connected between the resistor and pin 3 (ground) on the plug.

```
                    1 kΩ
Plus   ○────────────▭─────────── Middle pin 2,5 mm stereo plug

Minus  ○──────────────────────── Ground pin on 2,5 mm stereo plug
```

Connection to a Ontech GSM 9025 is made by connecting a resistor between the pin marked with "4-20 mA" on terminal A and the current cable. The other connection to the current cable is connected to the pin marked with "GND".

```
                    1 kΩ
Plus   ○────────────▭─────────── Pin "4-20mA" terminal A

Minus  ○──────────────────────── Pin "GND" on terminal A
```

Caution! Do not connect higher voltage than 25 Volt because it can damage the processor.

Activate the sensor function under the settings tab "Advanced Settings". Here you can set your desirable alarm level.
The value is reported back in percent in the span 4-20 mA. 0% is reported at 4 mAS och 100% is reported at 20 mA.

%	mA	(V)
0	4,0	4,60
10	5,6	6,44
20	7,2	8,28
30	8,8	10,12
40	10,4	11,96
50	12,0	13,80
60	13,6	15,64
70	15,2	17,48
80	16,8	19,32
90	18,4	21,16
100	20,0	23,00

The measurements is made by measuring the voltage over a resistor with the value 150 ohm conneted between plus and minus described above.