

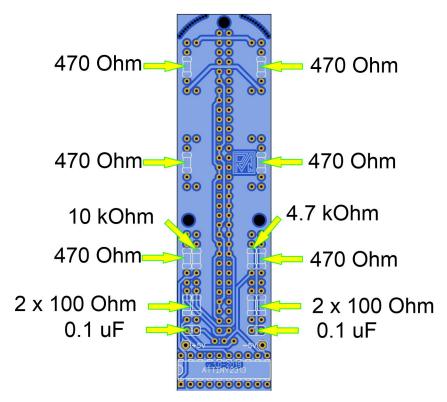
A set of parts for self-assembly of a digital indoor LED temperature indicator.

## Kit Options.

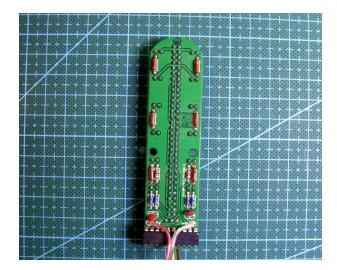
Part name	Quantity	Units
Double-sided PCB for the project "Women's whim" (100x100 mm)	1	pcs
Microcontroller ATMEGA8-16PU (programmed and tested)	1	pcs
DS18B20 temperature sensor	1	pcs
Rectangular LEDs 2x5x7mm red for the dial	32	pcs
Rectangular LEDs 2x5x7mm yellow for numbers	12	pcs
Ceramic Capacitor CT4 0.1uF 50V	2	pcs
100 Ω Resistor 0.125w CFR	4	pcs
470 Ω Resistor 0.125w CFR	6	pcs
4.7 kΩ Resistor 0.125w CFR	1	pcs
10 kΩ Resistor 0.125w CFR	1	pcs
USB Type A Connector, 4 pins	1	pcs
Power cable 2x7 / 0.12mm CCA (0.08mm2) OD: 1.6x3.2, transparent 1.0m	1	pcs

## Temperature indicator assembly procedure

Initially, it is recommended that components be installed on the underside of the circuit board:



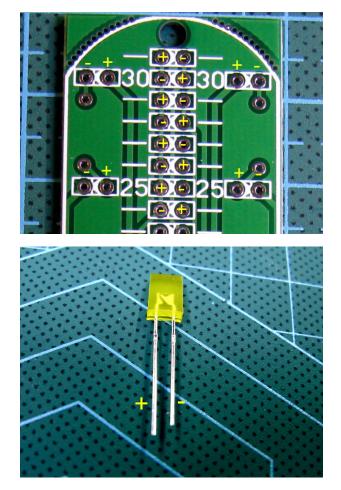
First, we solder the resistors and capacitors (the microcontroller will solder at the very last stage.)



After installing the components from the bottom, we go to the top side of the board.



For the temperature indicator, select the red LEDs. For markers of tens of degrees of temperature - yellow LEDs.

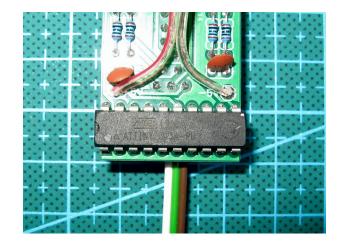


## Pay attention to the polarity of the LEDs!

The next step is to solder the microcontroller.

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Connects the DS18B20 temperature sensor using the wires included in the kit (the color of the wire may differ from the photo).

And solder to the circuit board.

And to complete the assembly, we solder the power cable to the USB connector.

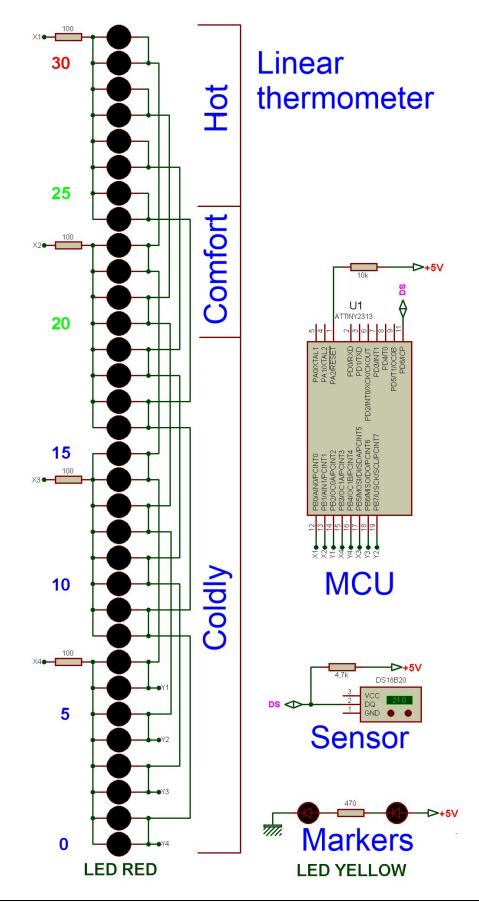


To the PCB solder the power cable



## Warning!

Before switching on for the first time, be sure to check that the power is connected correctly. Only after making sure that they are connected correctly, apply power to the temperature indicator!



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