## **Review of Digital Soldering Station BAKON 950D**

This soldering station is quite interesting, especialy for that price. I got it for about 35€ plus 13€ for 5 extra tips.

- 1. Soldering Station, from eBay-user: vst-store
- 2. Soldering Tips, from eBay-user: zqualj

The tips have the ceramic heating element included. The temperature is measured via the resistance of the PTC heating element. In cold state it has about  $8\Omega$ , @ 330°C (measured) it has about  $16\Omega$ .

This design has 2 major disadvantages:

- Every tip has its own heating element, with it's own characteristic. Therfore there is allways a
  different temperature error. I have measured 6 different tips with a thermocouple temperature
  sensor at a constant setting of 400°C. The results were between 335C° and 365°C.
  As a workaround one can use a lookup table for each tip, which is a bit unpractical.
  Edit: there is an adjustment potentiometer at the controller. Therefore the Error can be reduced
  to about ±15°C.
- 2. Since the temperature is measured in the heating wire, that wire is held at a constant temperature. Due to the thermal resistance from the wiire to the tip a big temperature drop is the result on heavy thermal loads. Numerically spoken: The thermal power is reduced by 60%, compared to the ERSA Multi-TC, which has also a nominal power of 75W and a dedicated temperature sensor behind the tip.

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