

All Weller soldering and desoldering units are carefully checked for compliance with standard tolerance using precision measuring devices under no-load conditions. Under these conditions a separate readjustment is not required even after repairing or replacing individual components.

For checking the control accuracy as required by ISO 9000 we recommend the use of our temperature measuring tips which can be supplied for all electronically controlled soldering irons.

Please note that the measurement results expected cannot be more accurate than the total tolerance from measuring instrument tolerance and thermocouple tolerance.

We therefore recommend using a thermocouple with a 0,5 mm outside diameter in accordance with DIN/IEC 584, Part 1, type K, class 1-1/3 DIN  $\pm 1^{\circ}\text{C}$  in conjunction with the respective temperature measuring tip. The temperature measuring tips show the thermal mean value of the corresponding soldering tip programme in each case. The measurement can easily be carried out in a draught free environment. However, the real tip temperature can only be measured under calibration room conditions at the soldering tip used in each case. For this it should be noted that the heated thermocouple is contacted by the soldering tip over a length of at least 5 mm (10 x outside diameter). Ensure a good thermal contact (solder droplets).

For direct temperature measurement at the soldering tip we also recommend using our temperature measurement equipment WTT 1.

### Electronic Temperature Measuring System



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