



## **POWER REGULATOR**

Driven by a microprocessor for all your IRONS 230V  
30W to 400W

**SEM Company has developed a system of power control of any irons powered by 230V**

The principle is to regulate in open-loop soldering irons 30 to 400W from the potentiometer located on the box.

Depending on potentiometer position, the iron is powered by wave trains to get the desired power.

The microcontroller is synchronized to the sector which allows a non-random switching to 0 volts.

(To avoid parasitism).

Because of its open-loop operation, the microprocessor calculates the value of power and recorded the time it takes to achieve it.

During this optimized time, the microprocessor will program automatically trains of waves necessary to accelerate heating.

For example, a 100W iron, it may need only 30% of its power (30W) for a temperature of 200 ° C, the iron goes back to his set point power (30W or 30%). With his integrated system of calculations, 100% power (100W) will be programmed at boot time.

This operating at 100% of power will take place at startup (cold iron) or each time the knob positive (increased set point temperature).

### **RP500**



Similarly for any negative change in value (decrease temperature), the microprocessor according to the power value recorded, calculate the time it takes to achieve it. The power of iron will be completely shut down for the iron to get faster to its value.



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THE EUROPEAN  
STANDARDS