



2 HEADS DIFFERENTIAL TRIMMING EQUIPMENT



ELTEC differential trimming equipment, can perform the magnetic trimming of relay RCDs, with 2-3-4 poles, with a residual current protection between 10mA and 500mA rms. It is equipped with 2 mechanical heads, completely independent among them, which can work simultaneously.

The automatic switch, when inserted inside the mechanical head, is locked and the test starts. First of all, the equipment perform a magnetic saturation of the relay, and after it perform a demagnetization. At this point , a sinusoidal residual current is applied, delivered through a fast ramp until you get close to $I\Delta n$, then slow to get greater accuracy in detecting the intervention point. If it is still too high, the power of demagnetization is corrected using a mathematical algorithm, and is performed another demagnetization and another residual current verification. The process continues in this way until you have a certain number of consecutive trips within the window defined by acceptance.

The equipment is controlled and programmed by an external Personal Computer plugged in Through a USB cable. By PC you can also export in a database all working data and statistics.

Set parameters:

Min Trip Current (mA)

Max Trip Current (mA)

Max Delta (mA) – between consecutive intervention verifications.

Initial Demagnetization Voltage (V) – This parameter allow you to start the procedure at a certain voltage level, saving time in the trimming process.

Demagnetization factor

Number of consecutive verifications needed

Current restart percentage – Rate at which the current ramp restarts after the first trip, saving time in the verification process.

Slow ramp speed

Fast ramp speed

Technical specifications:

<i>Power supply</i>	<i>220÷230Vac 50/60Hz</i>
<i>Max power</i>	<i>2,5KW</i>
<i>Maximum differential current</i>	<i>3A rms</i>
<i>Dimensioni(HxWxD)</i>	<i>1500x2000x1000 mm</i>
<i>Weight</i>	<i>400Kg</i>