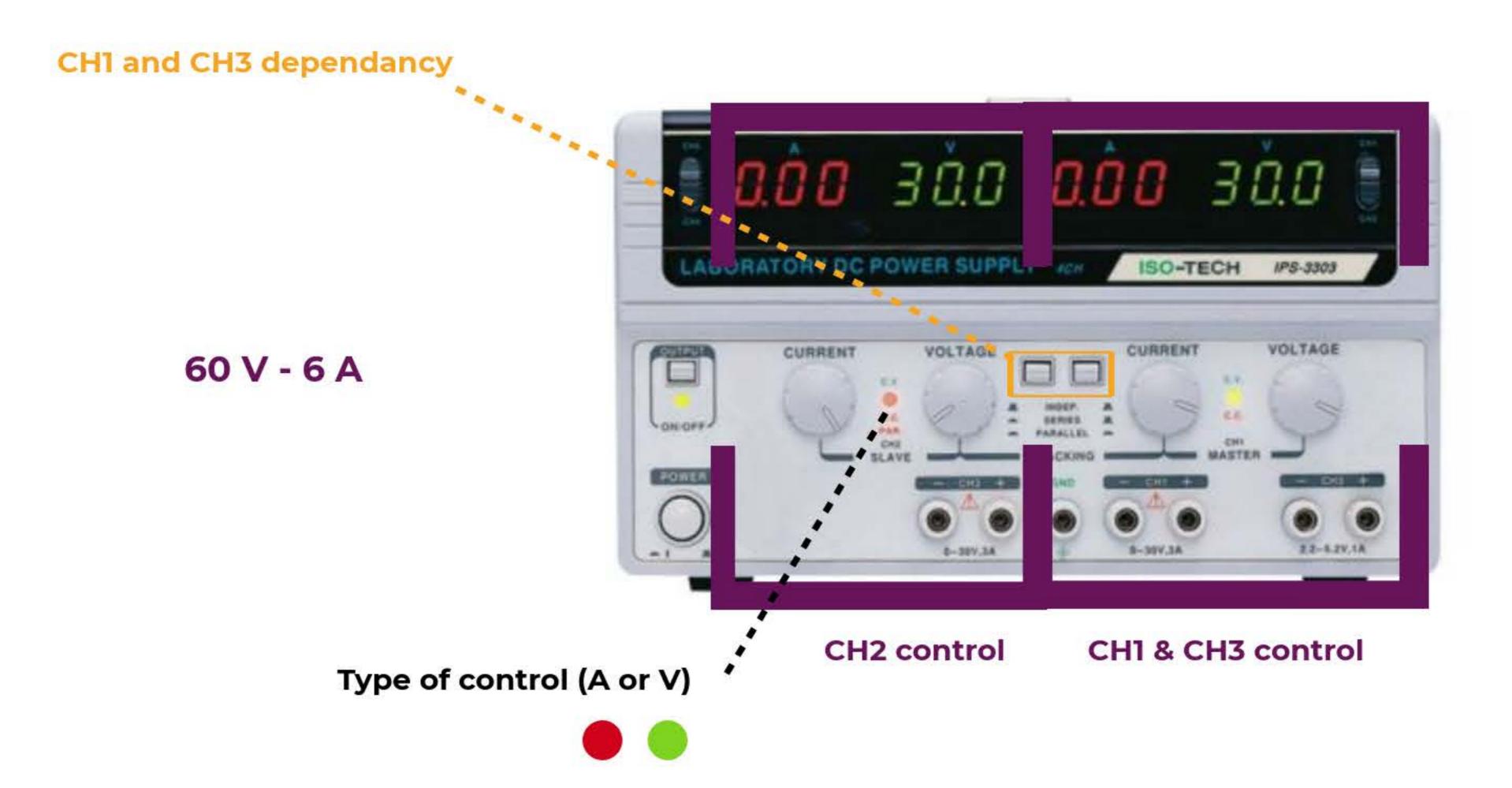
Power supply



With the power switched OFF:

- 1. Check that the dependancy buttons are unpressed
- 2. Choose the lines you will use (CH1, CH2 and CH3)
- 3. Connect the + and the of the selected line to your circuit

With the power switched ON:

- 4. Set your A and V with the knobs
- 5. Notice the type of control
- 6. Activate the output (and desactivate at the end of your session!)

Warnings:

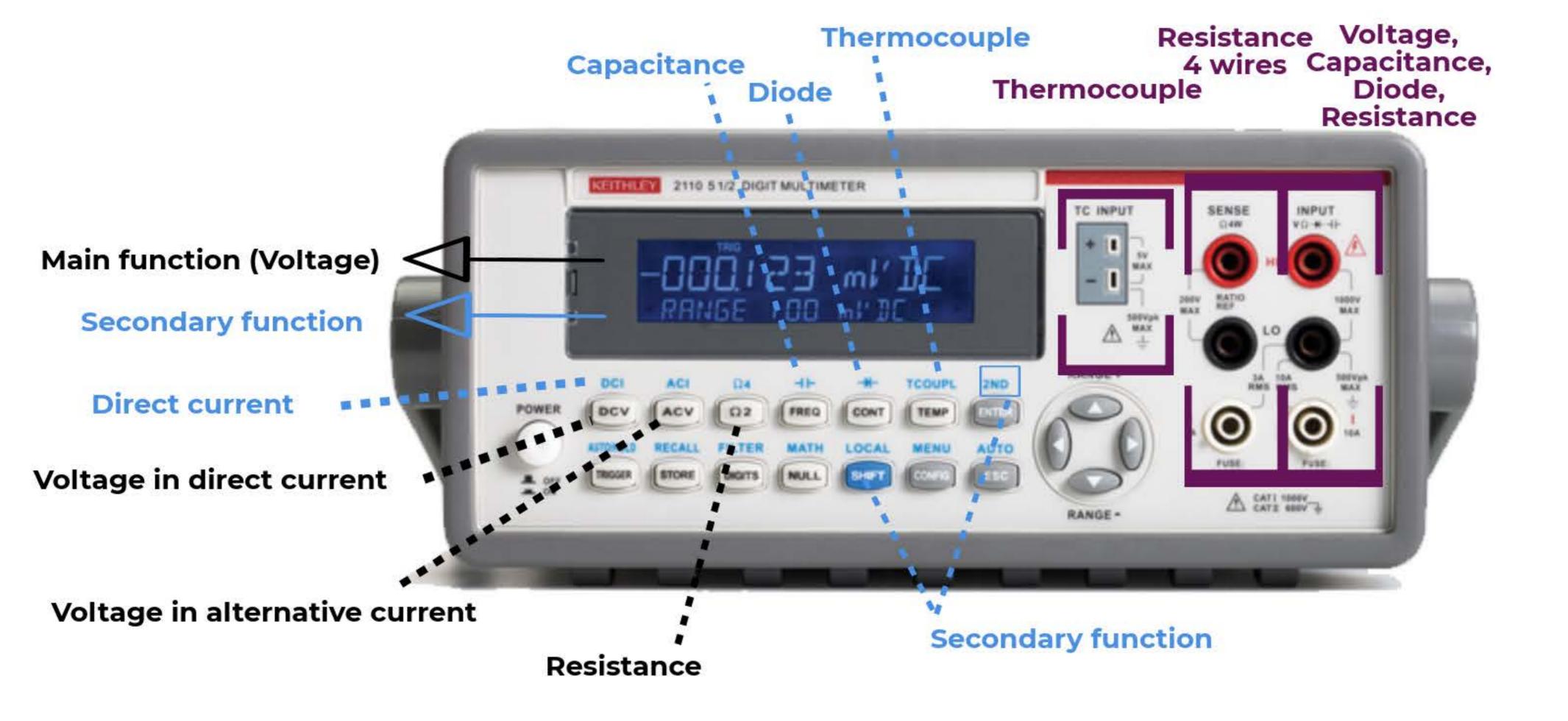
Voltage above 60 V DC can be lethal

If series dependancy is activated CH1 and CH3 voltages sum up

Remarks:

CH3 has a [2.2-5.2] voltage range with a fixed 3A. It suits TTL circuits.



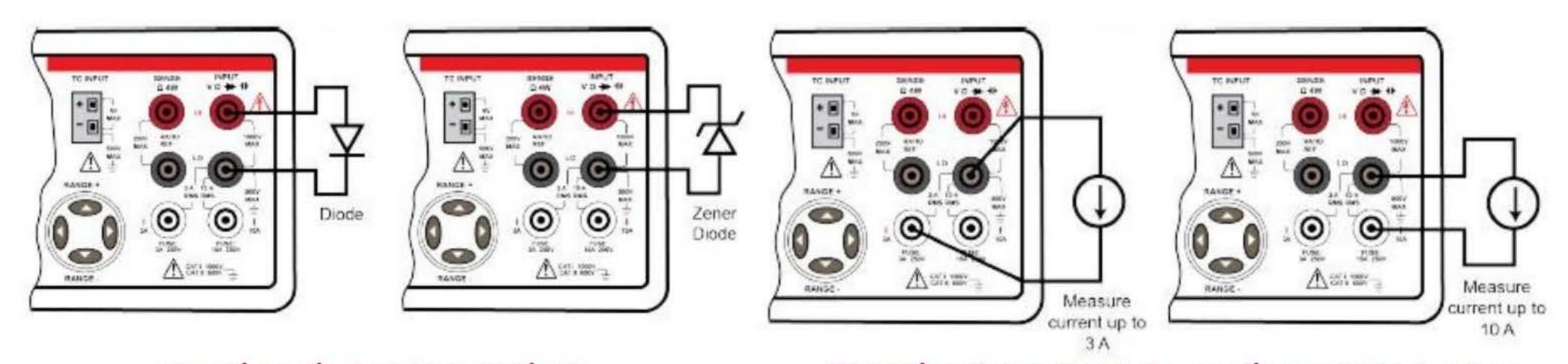


With the power switched OFF:

1. Connect the + and - of your circuit to the wished measurement plugs

With the power switched ON:

- 2. Select the main and secondary displays with the Shift button
- 3. Select the measurement range



Plugging diode & Zener diode

Plugging for current depending on the A range

· Waveform generator ·)

Up to 50 MHz



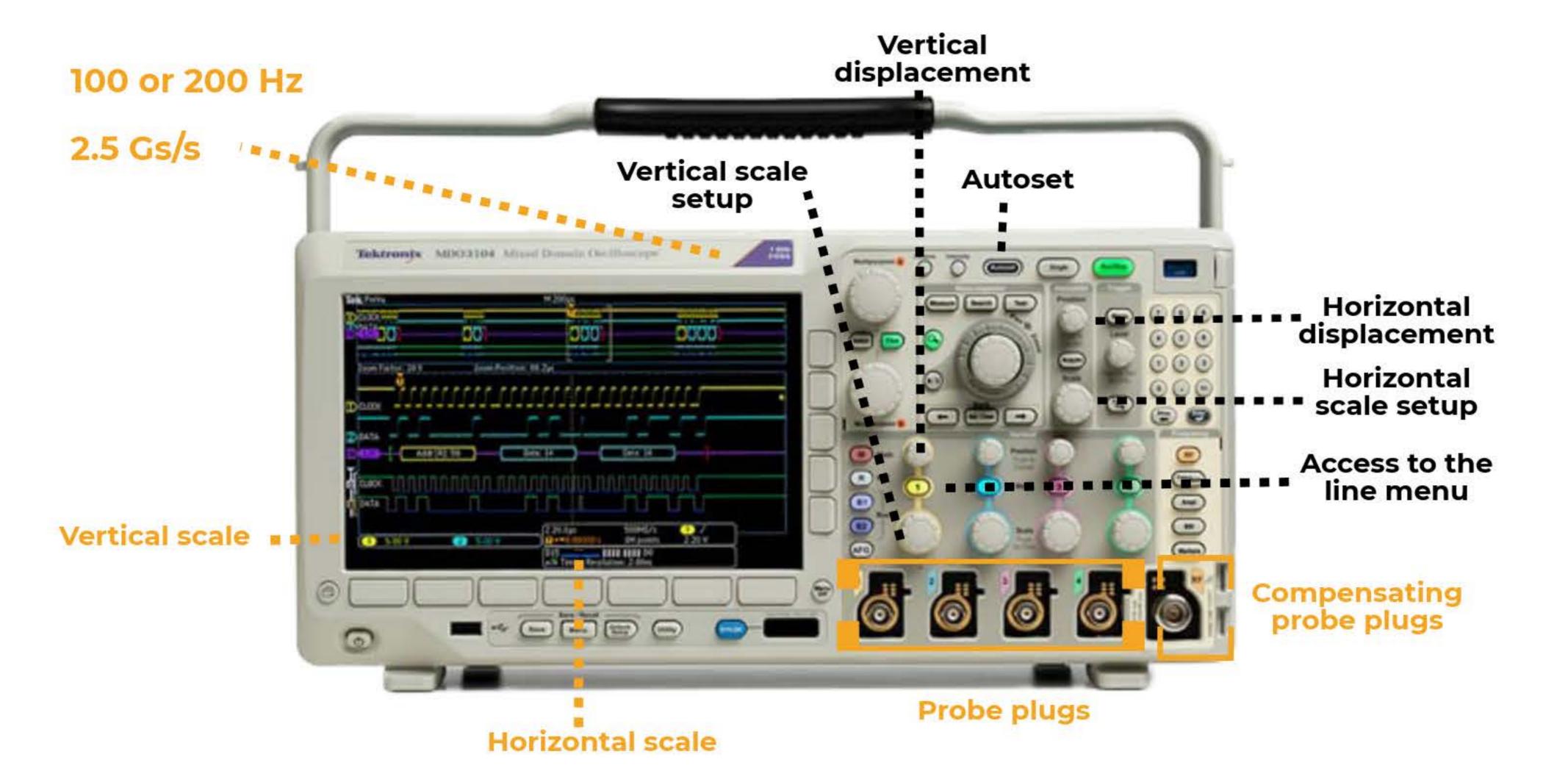
With the power switched OFF:

1. Connect the + and - of your circuit to the plugs

With the power switched ON:

- 2. Press the Graph button
- 2. Select the waveform
- 3. Define the frequency, the period, the amplitude, the DC offset and the polarity with the navigation wheel and the cursors
- 4. Press the Output button





With the power switched OFF:

1. Connect the probes to your circuit

With the power switched ON:

- 2. Setup the horizontal and vertical scales with the knobs
- 3. Press the coloured probe number button to open the associated menu
- 4. Select AC ou DC coupling

Remarks:

Before using a new probe make sure it is well compensated (After pressing Autoset and connecting the probe to the bottom right of your oscilloscope you should see a square signal).

When several probes are connected it is possible for example to compare the AC and DC components of a signal or do math operations on them such as subtraction.

When a trigger is defined the signal is displays only if it exceeds a certain threshold.

It is possible to monitor communications such as serial with an oscilloscope.

Available models

Multimeter

Model Keithley 2110

Range 1000 V - 10 A

Precision up to $1 \mu V - 0.1 \mu A$ function of the A or V range

up to 50 000 s/s

Power supply

Model Iso-Tech IPS 3303

Range 60V - 6A

Precision 3 mV-3 mA

Model Iso-Tech IPS 3610

Range 36V - 10A

Precision 5 mV - 3 mA

Model Keithley Programmable Power supply 2200-72-1

Range 72 V - 1.5 A

Precision 1 mV - 0.1 mA

Oscilloscope

Model MDO 3024

Range 200 MHz

Precision 2.5 Gs/s

Model MDO 3014

Range 100 MHz

Precision 2.5 Gs/s

Waveform generator

Model Keithley 3390

Range 50 Hz

Precision 125 Ms/s

Inventaire électronique

Pour souder

Station de soudure

Pannes disponible [0,2 - 1,2 - 1,6 - 3,2mm]

Brasure Pâte de contact

Troisième main Loupe





Pour dessouder

Tresse à dessouder

Stylo pompe

Pistolet à air chaud

Extremité panne pince





Flux





Pour contrôler

Multimètre - test de continuité

Microscope digital (+ CD d'installation)

Microscope Leica



Petit outillage

Pince à dénuder

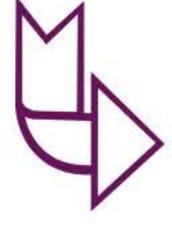
Pince fine

Pince à couper

Sertisseuse

Ciseau d'électricien





Soudure réussie!

