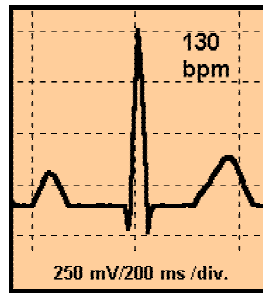
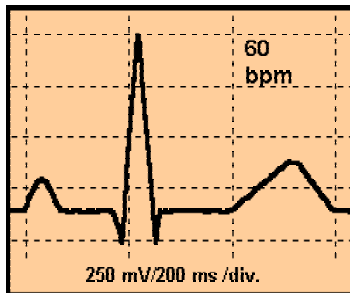


# ECG Simulator Ferronato<sup>®</sup> - FC3D

Well suited for testing ECG monitors, Holter recorders, QRS synchronised or triggered devices, electrocardiographs, etc. Digitally generated waveform, with high amplitude and rate stability.

- ✓ Realistic signals (Leads)
- ✓ Realistic output impedance
- ✓ Easy connection: Banana and Snap-On
- ✓ Membrane push-buttons
- ✓ Microcontroller based
- ✓ Long battery life (>300 h)
- ✓ "Low battery" indicator
- ✓ Small, sturdy and lightweight



Captured signals,  
at 60 and 130 bpm



**NEW! Terminal connectors improved, as in the photo, since September 2013.**

## SPECIFICATIONS

- Waveform:** "Normal PQRST" wave, as in the above figure. The generated signal could be Lead I, Lead II or Lead III, according to terminals connection.
- Signal amplitude:** Fixed, 1.0 mV peak to peak  $\pm$  5 %.
- Rate:** Two selectable values: 60 and 130 bpm,  $\pm$  0.2 %. (bpm = Beats per Minute).
- Complex width:** 600 ms at 60 bpm and 435 ms at 130 bpm.
- Output impedance:** Maximum 4000  $\Omega$  between any terminals.
- Signal Offset:** 0.2 mV maximum, for isoelectric line.
- Connection:** Three outputs with two types of connectors: 4 mm female Banana and Snap-On stud, 20 mm spacing. IEC colours code (or "European") for Lead I.
- Light indicators:** Green LED flashing on each QRS. Red LED flashing on "Low Battery"
- Power supply:** 9 V battery type PP3 or 6LR61. Inverted polarity protected.
- Consumption:** 450  $\mu$ A (integrated), at 60 bpm.
- Operating temp:** From -10<sup>o</sup> C to 50<sup>o</sup> C.
- Size:** Maximum dimensions: 90 x 62 x 27 mm.
- Weight:** 66 grams without battery; approximately 110 grams with battery.
- Accessories:** Includes carrying bag, User's Manual and battery.
- Warranty:** Two years.

### Manufacturer and Distributor:

SERVICIENCIA, S.L.  
Isabel II, 22 - 45210 Yuncos - (Toledo) - SPAIN  
Phone: (+34) 925 536154 - Fax: (+34) 925 537644  
E-mail: [serviciencia@serviciencia.es](mailto:serviciencia@serviciencia.es)  
Internet: [www.serviciencia.es](http://www.serviciencia.es)

(hfc3in5.doc/25Sep13)

### Local Distributor: