

The invention relates to the field of sports metrology, in particular to processes for determining the human motion activity.

The device for determining the human motion activity comprises a motion determining means, an analog multiplexer, an analog-to-digital converter, the input of which is connected to the output of the analog multiplexer, a microcontroller, the input of which is connected to the output of the analog-to-digital converter and the output – to the input of the analog multiplexer, a main memory and a high-speed interface, connected to the microcontroller. The motion determining means includes a recharge electromechanical device of a storage battery with recharging circuit, containing a rectifier bridge, a capacitor and a resistor connected to the analog multiplexer.

The process for determining the human motion activity consists in that in the corresponding points of the human body there is placed a self-contained microcontroller device with elements sensible to their position change in the space, with the help of means sensible to its signals it is recorded the obtained information, the obtained signals are encoded and it is calculated on base thereof the equivalent value of the human motion activity, which is recorded in the main memory. As sensible element, perceptible to the position change in the space, it is used an electromechanical device recharging the storage battery of the microcontroller device. The equivalent value of the human motion activity is calculated on base of the value of the recharge electric current of the storage battery.

Claims: 4

Fig.: 1