circuits and multi step-up voltages (12D), (12E) for at least one of setting the amplification factor for said amplifier (51) and feeding an overload alert signal to said transceiver (53), (56).

7. The method according to anyone of claims 1 to 6, wherein said electrical device is enclosed in one of a body (20), (30), (40) and a cover with a visible color coded ratings selected from a group comprising a power consumption range, a power consumption value, a current drain range, a current drain value, a power voltage range, a power voltage value, a colored front cover, a colored rear cover, a colored frame, a colored whole body and combinations thereof.

8. An apparatus for sensing AC current drain by a load through one of a coiled and a structured current sensor made of a low ohmic metal alloy included in an electrical device selected from a group comprising AC outlet (30), AC plug (40), AC current sensing unit and AC current sensing adaptor (20), said coiled (11A), (11B) is a primary coil of a current transformer wounded by one of at least in part by a wire made of said ~~load~~ ohmic alloy and conductive wire having a given low ohmic value said structured (21R), (31R),

circuits and multi step-up voltages (12D), (12E) for at least one of setting the amplification factor for said amplifier (51) and feeding an overload alert signal to said transceiver (53), (56).

7. The method according to anyone of claims 1 to 6, wherein said electrical device is enclosed in one of a body (20), (30), (40) and a cover with a visible color coded ratings selected from a group comprising a power consumption range, a power consumption value, a current drain range, a current drain value, a power voltage range, a power voltage value, a colored front cover, a colored rear cover, a colored frame, a colored whole body and combinations thereof.

8. An apparatus for sensing AC current drain by a load through one of a coiled and a structured current sensor made of a low ohmic metal alloy included in an electrical device selected from a group comprising AC outlet (30), AC plug (40), AC current sensing unit and AC current sensing adaptor (20), said coiled (11A), (11B) is a primary coil of a current transformer wounded by one of at least in part by a wire made of said low ohmic alloy and conductive wire having a given low ohmic value said structured (21R), (31R),