THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A device for monitoring a plurality of physiological characteristics of a patient including:

a biosensor layer including a biodata collection element for sensing the physiological characteristics; and

an adhesive layer for maintaining contact between the biosensor layer and the skin surface of the patient;

an electromagnetic radiation receiver for receiving electromagnetic radiation;

a circuit for extracting power for the device from the received electromagnetic radiation; and

wherein the device is powered remotely by extracting of power for the device from electromagnetic radiation transmission received from a Wi-Fi, Bluetooth, cellular or low-power wide-area network power source.

2. A device according to claim 1, wherein the biodata collection element includes two or more sensors responsive to different physiological inputs.

3. A device according to claim 2, wherein the sensors are activated and deactivated remotely.

4. A device according to claims 2 or 3, wherein the physiological inputs include heart rate, blood pressure, pulse, SpO2, VO2 max, movement time, rest time, lay time, body temperature, electrical activity of the heart (ECG), measurement of wound recovery factors, measurement of skin surface stress factors, measurement of blood sugar levels, audio output and/or the geographic location of the patient.

5. A device according to any one of claims 2 to 4, wherein the physiological inputs are recorded by the biodata collection element.

6. A device according to any one of claims 2 to 5, wherein the device includes a radio frequency transmitter.

7. A device according to any one of claims 2 to 6, wherein the recorded physiological inputs are transferred to a database.

8. A device according to any one of claims 1 to 7, wherein the device is formed from flexible materials.

9. A device according to any one of claims 1 to 8, wherein the adhesive layer maintains contact with the skin surface of the patient for between approximately 1 to 30 days.

10. A method for monitoring the physiological characteristics of a patient including:

applying to the patient one or more devices for sensing a plurality of physiological inputs, the device including:

a biosensor layer including a biodata collection element; and

an adhesive layer;

an electromagnetic radiation receiver for receiving electromagnetic radiation;

a circuit for extracting power for the device from the received electromagnetic radiation; and

wherein the device is powered remotely by extracting of power for the device from electromagnetic radiation transmission received from a Wi-Fi, Bluetooth, cellular or low-power wide-area network power source; and

wherein the adhesive layer provides a means for maintaining contact between the biosensor layer and the skin surface of the patient; and

wherein upon activation the device senses one or more physiological inputs from the patient.

11. A method according to claim 10, wherein the biodata collection element includes two or more sensors responsive to different physiological inputs.

12. A method according to claims 10 or 11, wherein the recorded physiological inputs are selected from heart rate, blood pressure, pulse, SpO2, VO2 max, movement time, rest time, lay time, body temperature, electrical activity of the heart (ECG), measurement of wound recovery factors, measurement of skin surface stress factors, measurement of blood sugar levels, audio output and/or the geographic location of the patient.

13. A method according to any one of claims 10 to 12, wherein method includes notifying a secondary device of the recorded physiological inputs.

14. A method according to any one of claims 10 to 13, wherein the method includes determining whether a change in the recorded physiological input(s) reaches a predefined threshold.

15. A method according to any one of claims 1o to 14, wherein the secondary device includes a data module configured to receive, monitor and/or analyse the physiological inputs recorded by the biosensor layer.

16. A system for monitoring the physiological characteristics of a patient including:

a device for recording a plurality of physiological inputs, the device including:

a biosensor layer including a biodata collection element for sensing the physiological characteristics; and

an adhesive layer for maintaining contact between the biosensor layer and the skin surface of the patient;

an electromagnetic radiation receiver for receiving electromagnetic radiation;

a circuit for extracting power for the device from the received electromagnetic radiation;

wherein the device is powered remotely by extracting of power for the device from electromagnetic radiation transmission received from a Wi-Fi, Bluetooth, cellular or low-power wide-area network power source; and

a server for receiving the recorded physiological inputs from the device and for and storing the received physiological inputs.

17. A system according to claim 16, wherein the system includes a wireless network.

18. A system according to claims 16 or 17, wherein the system includes a means for notifying a secondary device of the recorded physiological inputs.