

1. A product and environment condition monitoring device for use in monitoring goods, which includes a programmed device that includes at least one environment or condition sensor selected from sensors for measuring temperature, humidity and impact shock;
a processor which incorporates a Finite State Machine ("FSM") and associated firmware which automatically monitors, analyses and controls (auto-configures) the functional state of the programmed device;
a data store;
a transmitter and receiver for wireless communication;
wherein the processor is programmed to capture data from its sensors, or from other sensors wirelessly connected to the programmed device, interprets and stores the data and when an external computing device is wirelessly connected to the programmed device, the processor is programmed to operate the programmed device as a data reader and transmits data to the external computing device.
2. A product and environment condition monitoring device as claimed in claim 1 which additionally includes at least one data input port to enable connection to other sensors or other programmed devices and/or at least one output port and when an external computing device is connected to said outlet port it acts as a data reader providing data to said external computing device.
3. A product and environment condition monitoring system which includes a product and environment condition monitoring device as claimed in claim 1 and at least one computing device programmed to enable receiving, storing, interpreting, displaying and transmitting of data from said programmed device.
4. A system as claimed in claim 3 wherein wireless communication between said programmed device and other programmed devices and communication with an external computing device is either by wi-fi, low energy blue tooth or radio frequency.
5. A product and environment condition monitoring network which includes an external computing device and two or more product and environment condition monitoring devices as claimed in claim 1 in which one of said monitoring devices includes a programmed device in reader mode and the other monitoring devices include programmed devices which are in sensor mode.