What is claimed is:

1. A system having one or more sensors for measuring one or more parameters, comprising:
   a. a sensor ~~adapted~~ to measure a characteristic of a reaction, and transmit information about said characteristic in conformance with a first specification;
   b. a device ~~adapted~~ to receive information corresponding to a characteristic of said reaction~~; said information~~ comprising two leads and a voltage source providing a polarizing voltage of 600 to 800 mV between said leads, wherein said received information is represented in conformance with a second specification, wherein said second specification comprises a current in the range of 0 to 100nA between said two leads; and
   c. an interface module, in communication with said sensor and said device, ~~wherein said interface module receives~~ comprising an analog to digital converter, a microprocessor in communication with a storage element comprising code, tables or software, which is used to convert said first digital value to said second digital value, and a digital to analog converter, wherein said analog to digital converter receives information from said sensor in conformance within said first specification via an input port, converts said information to ~~said second specification and transmits information in conformance with said second~~

~~specification~~ a first digital value, said microprocessor converts said first digital value to a second digital value using said code, tables or software located in said storage element, said digital to analog converter converts said second digital value to information to said device via a first output port.

2. The system of claim 1, wherein said sensor comprises a dissolved oxygen sensor.
3. The system of claim 2, wherein said sensor comprises a fluorescence oxygen sensor.
4. The system of claim 2, wherein said first specification comprises a voltage output in the range of 0 to 10 volts.
5. The system of claim 2, wherein said first specification comprises a current output in the range of 4 to 20 milliamps.
6. The system of claim 1, wherein said device comprises a controller.
7. The system of claim 1, wherein said device comprises a data logger.
8. ~~The system of claim 6, wherein said second specification comprises two leads, having a polarizing voltage of 600 to 800 mV between said leads, and a current output in the range of 0 to 100 nA.~~
9. ~~8~~. The system of claim 1, wherein said interface module further comprises a second output port, wherein said interface module transmits information in conformance to said first specification on said second output port.

~~10~~9. The system of claim 1, wherein said interface module further comprises a second output port, wherein said interface module transmits information in conformance to said second specification on said second output port.

~~11~~10. The system of claim 1, wherein said interface module further comprises a second output port, wherein said interface module transmits information in conformance a third specification on said second output port.

~~12~~11. A method of utilizing a legacy controller with an oxygen sensor to control a reaction, comprising:

a. locating said oxygen sensor in a reaction chamber;

b. attaching the output of said oxygen sensor to an interface module;

c. using said oxygen sensor to monitor said reaction;

d. providing a circuit on said interface module, adapted to receive signals conforming to a first specification defined by said oxygen sensor, and output signals conforming to a second specification defined by said legacy controller;

e. attaching the output of said interface module to said legacy controller; ~~and~~

f. utilizing said legacy controller to control said reaction; and said second specification comprises two leads, having a polarizing voltage of 600 to 800 mV between said leads, and a current output in the range of 0 to 100 nA.

~~13~~12. The method of claim ~~12~~11, wherein said first specification comprises a voltage output in the range of 0 to 10 volts.

~~14~~13. The method of claim ~~12~~11, wherein said first specification comprises a current output in the range of 4 to 20 milliamps.

~~15~~14. The method of claim ~~12~~11, wherein said oxygen sensor comprises a fluorescence oxygen sensor.

~~16. The method of claim 12, wherein said second specification comprises two leads, having a polarizing voltage of 600 to 800 mV between said leads, and a current output in the range of 0 to 100 nA.~~

~~17~~15. The method of claim ~~12~~11, wherein said interface module further comprises a second output port, said method further comprises using said interface module to transmit information in conformance to said first specification on said second output port.

~~18~~16. The method of claim ~~12~~11, wherein said interface module further comprises a second output port, said method further comprising using said interface module to transmit information in conformance to said second specification on said second output port.

~~19~~17. The method of claim ~~12~~11, wherein said interface module further comprises a second output port, said method further comprising using said interface module to transmit information in conformance a third specification on said second output port.

18. The system of claim 1, wherein said digital to analog converter comprises a transistor having two

terminals positioned between said two lead, wherein resistance between said terminals is determined based on said second digital value.