CLAIMS:

1. A system for detecting welding or cutting parameters, comprising:

an input terminal configured to receive a plurality of signals corresponding to welding or cutting parameters from a first welding or cutting device, wherein none of the plurality of signals carry welding or cutting power;

an output terminal configured to provide the plurality of signals to a second welding or cutting device;

a first plurality of conductors coupled between the input terminal and the output terminal and configured to carry the plurality of signals between the input terminal and the output terminal;

a second plurality of conductors, each conductor of the second plurality of conductors coupled to a respective conductor of the first plurality of conductors; and

control circuitry coupled to the second plurality of conductors and configured to detect the welding or cutting parameters from the plurality of signals via the second plurality of conductors without altering the plurality of signals.

2. The system of claim 1, wherein the control circuitry is configured to store the detected welding or cutting parameters.

3. The system of claim 1, wherein the control circuitry is configured to provide the detected welding or cutting parameters to a remote device.

4. The system of claim 1, wherein the control circuitry is configured to analyze the detected welding or cutting parameters to generate data relating to a welding or cutting application.

5. The system of claim 1, wherein the control circuitry is configured to modify at least one of the plurality of signals by issuing a command, interrupting a signal, adjusting a signal, or some combination thereof, based on the detected welding or cutting parameters or based on data received by the control circuitry.

6. The system of claim 1, wherein the plurality of signals comprise analog signals, digital signals, or some combination thereof.

7. The system of claim 1, wherein the plurality of signals are configured to power the control circuitry.

8. A method for detecting welding or cutting parameters, comprising:

receiving, at an input terminal of a welding or cutting monitoring device, a plurality of signals from a first welding or cutting device, wherein the plurality of signals correspond to welding or cutting parameters, and none of the plurality of signals carry welding or cutting power;

detecting, via a plurality of detection conductors connected to control circuitry of the welding or cutting monitoring device, welding or cutting parameters from the received plurality of signals; and

providing, at an output terminal of the welding or cutting monitoring device, the received plurality of signals to a second welding or cutting device;

wherein the plurality of detection conductors are connected to pass-through conductors coupled between the input terminal and the output terminal of the welding or cutting monitoring device.

9. The method of claim 8, comprising providing the welding or cutting parameters from the welding or cutting monitoring device to a remote device.

10. The method of claim 8, wherein receiving the plurality of signals from the first welding or cutting device comprises receiving the plurality of signals from a welding or cutting power supply.

11. The method of claim 8, comprising storing the welding or cutting parameters on the welding or cutting monitoring device.

12. The method of claim 8, comprising storing the welding or cutting parameters on a remote device.

13. The method of claim 8, wherein providing the received plurality of signals to the second welding or cutting device comprises providing the received plurality of signals to a wire feeder.

14. A device for detecting welding or cutting parameters, comprising:

a first connector;

a second connector;

a first plurality of conductors coupled between the first connector and the second connector, wherein each conductor of the first plurality of conductors is configured to carry a signal between the first connector and the second connector, and none of the first plurality of conductors carry welding or cutting power;

a second plurality of conductors, each conductor of the second plurality of conductors coupled to a respective conductor of the first plurality of conductors; and

control circuitry coupled to the second plurality of conductors and configured to detect welding or cutting parameters from the first plurality of conductors via the second plurality of conductors without altering the signals carried between the first connector and the second connector by the first plurality of conductors.

15. The device of claim 14, comprising a battery coupled to the control circuitry and configured to power the control circuitry.

16. The device of claim 14, comprising a wireless transmitter coupled to the control circuitry and configured to provide the detected welding or cutting parameters to a remote device.

17. The device of claim 14, comprising a communication port coupled to the control circuitry and configured to enable communication with a network.

18. The device of claim 14, wherein the first connector and the second connector each comprise a 14-pin connector.

19. The device of claim 14, comprising a universal serial bus port coupled to the control circuitry and configured to enable communication with an external storage device for storage of the detected welding or cutting parameters.

20. The device of claim 14, wherein the control circuitry is configured to receive data from a sensor in a welding or cutting system and to provide the detected welding or cutting parameters and sensor data to a remote device.

CLAIMS:

1. A system for detecting welding or cutting parameters, comprising:

an input terminal configured to receive a plurality of signals corresponding to welding or cutting parameters from a first welding or cutting device, wherein none of the plurality of signals carry welding or cutting power;

an output terminal configured to provide the plurality of signals to a second welding or cutting device;

a first plurality of conductors coupled between the input terminal and the output terminal and configured to carry the plurality of signals between the input terminal and the output terminal;

a second plurality of conductors, each conductor of the second plurality of conductors coupled to a respective conductor of the first plurality of conductors; and

control circuitry coupled to the second plurality of conductors and configured to detect the welding or cutting parameters from the plurality of signals via the second plurality of conductors without altering the plurality of signals.

2. The system of claim 1, wherein the control circuitry is configured to store the detected welding or cutting parameters.

3. The system of claim 1, wherein the control circuitry is configured to provide the detected welding or cutting parameters to a remote device.

4. The system of claim 1, wherein the control circuitry is configured to analyze the detected welding or cutting parameters to generate data relating to a welding or cutting application.

5. The system of claim 1, wherein the plurality of signals comprise analog signals, digital signals, or some combination thereof.

6. The system of claim 1, wherein the plurality of signals are configured to power the control circuitry.

7. A method for detecting welding or cutting parameters, comprising:

receiving, at an input terminal of a welding or cutting monitoring device, a plurality of signals from a first welding or cutting device, wherein the plurality of signals correspond to welding or cutting parameters, and none of the plurality of signals carry welding or cutting power;

detecting, via a plurality of detection conductors connected to control circuitry of the welding or cutting monitoring device, welding or cutting parameters from the received plurality of signals; and

providing, at an output terminal of the welding or cutting monitoring device, the received plurality of signals to a second welding or cutting device;

wherein the plurality of detection conductors are connected to pass-through conductors coupled between the input terminal and the output terminal of the welding or cutting monitoring device.

8. The method of claim 7, comprising providing the welding or cutting parameters from the welding or cutting monitoring device to a remote device.

9. The method of claim 7, wherein receiving the plurality of signals from the first welding or cutting device comprises receiving the plurality of signals from a welding or cutting power supply.

10. The method of claim 7, comprising storing the welding or cutting parameters on the welding or cutting monitoring device.

11. The method of claim 7, comprising storing the welding or cutting parameters on a remote device.

12. The method of claim 7, wherein providing the received plurality of signals to the second welding or cutting device comprises providing the received plurality of signals to a wire feeder.

13. A device for detecting welding or cutting parameters, comprising:

a first connector;

a second connector;

a first plurality of conductors coupled between the first connector and the second connector, wherein each conductor of the first plurality of conductors is configured to carry a signal between the first connector and the second connector, and none of the first plurality of conductors carry welding or cutting power;

a second plurality of conductors, each conductor of the second plurality of conductors coupled to a respective conductor of the first plurality of conductors; and

control circuitry coupled to the second plurality of conductors and configured to detect welding or cutting parameters from the first plurality of conductors via the second plurality of conductors without altering the signals carried between the first connector and the second connector by the first plurality of conductors.

14. The device of claim 13, comprising a battery coupled to the control circuitry and configured to power the control circuitry.

15. The device of claim 13, comprising a wireless transmitter coupled to the control circuitry and configured to provide the detected welding or cutting parameters to a remote device.

16. The device of claim 13, comprising a communication port coupled to the control circuitry and configured to enable communication with a network.

17. The device of claim 13, wherein the first connector and the second connector each comprise a 14-pin connector.

18. The device of claim 13, comprising a universal serial bus port coupled to the control circuitry and configured to enable communication with an external storage device for storage of the detected welding or cutting parameters.

19. The device of claim 13, wherein the control circuitry is configured to receive data from a sensor in a welding or cutting system and to provide the detected welding or cutting parameters and sensor data to a remote device.