

Claims:

1. A temperature sensing system comprising:
an optical temperature sensing probe;
a cable coupled to the probe for interfacing the probe with a converter via a connector;
an optical fiber carried through the cable from the probe; and
a calibration module positioned in the probe or connector, wherein the connector comprises at least two electrical conductors to enable the calibration module to communicate with the converter via the connector.
2. The system of claim 1, wherein the calibration module is positioned in a male portion of the connector.
3. The system of claim 1, wherein the calibration module is positioned in the probe, wherein the cable comprises at least two electrical conductors.
4. The system of claim 1, wherein the calibration module comprises a processor, memory, and calibration data stored in the memory, the calibration data being specific to the probe.
5. The system of claim 1, wherein the calibration module is positioned in a connector of an extension cable connected between the probe and the converter.
6. The system of claim 5, wherein the extension cable comprises memory to store information related to the optical properties of the extension cable.
7. The system of claim 1, wherein the connector comprises a bore through which an optical fiber passes from the probe to the converter.
8. The system of any one of claims 1 to 7, wherein the connector comprises:
a bore for carrying an optical fiber from the cable to the converter;
at least two contact points; and
at least two electrical connections via the at least two contact points.

9. The system of claim 8, wherein the calibration module is connected to the contact points.
10. The system of claim 8 or claim 9, wherein the connector is a stereo jack type connector.
11. The system of claim 8 or claim 9, wherein the connector is an ST type connector.
12. A connector for connecting an optical temperature sensing probe to a converter via a cable coupled to the connector, the connector comprising:
 - a bore for carrying an optical fiber from the cable to the converter;
 - at least two contact points; and
 - at least two electrical connections via the at least two contact points.
13. The connector of claim 12, further comprising a calibration module connected to the contact points.
14. The connector of claim 12, wherein the connector is a stereo jack type connector.
15. The connector of claim 12, wherein the connector is an ST type connector.
16. An extension cable for connecting an optical temperature sensing probe to a converter, the extension cable comprising a first end and a second end, and at least two electrical conductors extending between the first end and the second end to carry a signal from the probe to the converter via the extension cable.