

ABSTRACT

To provide a connection structure that does not require a complicated manufacturing process, prevents reliably disconnection of conductive wires due to a pressure on insert molding, a repeatedly applied tension stress or bending stress during use of a sheath thermocouple to maintain stable performance of the thermocouple, and has more excellent moisture-proof and dust-proof properties than conventional structures.

An extension cable connection structure for a temperature measurement means, the connection structure being formed by connecting one pair of element wires derived from a sheath base end of the temperature measurement means to one pair of conductive wires derived from a leading end of an outer jacket on an extension cable, wherein a connection part made of a thermoplastic polyamide resin and molded by hot-melt molding covers a section from the sheath base end to the extension cable leading end through one pair of coupling parts coupling the pair of element wires and the pair of conductive wires, a connection part made of a thermoplastic polyamide resin and molded by hot-melt molding is placed such that the pair of element wires, the pair of coupling parts, and the pair of conductive wires, are each separated from one another.

Selected Drawing Fig. 3