

ABSTRACT

A wireless communication function-equipped temperature sensor unit includes: a temperature sensor; a wireless communication board including a conversion substrate including a conversion circuit configured to convert an analog temperature signal into a digital temperature signal, the analog temperature signal being output from the temperature sensor, and a wireless communication module mounted on the conversion substrate and configured to transmit the digital temperature signal as a wireless signal, the wireless communication board being arranged away from the temperature sensor and located at a side of the temperature sensor, the side being opposite to a side where the rotating body is arranged; a battery arranged between the temperature sensor and the wireless communication board and configured to supply electric power to the wireless communication board; and a housing accommodating the temperature sensor, the wireless communication board, and the battery and attached to the box, the wireless communication board being arranged along a tangential direction of the rotating body, the temperature sensor, the battery, and the wireless communication board being arranged so as to overlap one another when viewed from a normal direction of the wireless communication board.