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(57) Abstract :

The present invention discloses a device for continuous monitoring of bearing temperature in motors. The device comprises a temperature sensor (1), signal conditioning circuit (3), microcontroller unit (2), wireless transmitter module (4), display/interface module (6), and power supply (5). It continuously monitors temperature, processes signals, and transmits data for predictive maintenance. By integrating wireless connectivity, rugged design, and energy efficiency, the invention provides an intelligent solution for early detection of bearing failures, ensuring safety, reducing downtime, and enhancing motor reliability.

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