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(57) Abstract :

The "IoT Based Temperature Logging & Monitoring System for Industrial Application" presents an innovative solution to address the critical need for precise temperature logging & monitoring in various Industrial application. Using advanced & versatile hardware components like Arduino Microcontroller, ADS1115 converter, RTD PT100 sensor and ESP32 microcontroller, our system offers unparalleled accuracy, reliability, and remote accessibility in temperature logging & monitoring. Key features of our system - includes high-resolution temperature measurement, real-time data transmission and proactive alerting mechanisms to notify users of temperature fluctuations or deviation promptly. Moreover, the modular design and open-source architecture ensures scalability, flexibility and cost-effectiveness, making it suitable for a wide range of Industrial applications.

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