

**INKUBATOR BAYI BERBASIS MIKROKONTROLER  
DILENGKAPI SISTEM TELEMETRI MELALUI  
JARINGAN RS 485**

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**INTISARI**

Saat ini angka kematian bayi di Indonesia tergolong tinggi. Salah satu penyebabnya adalah tidak meratanya penyebaran inkubator bayi yang fasilitasnya lengkap, karena harganya mahal. Penelitian ini bertujuan merancang dan merealisasikan sebuah inkubator bayi yang memiliki fasilitas lebih baik dibandingkan dengan inkubator sederhana yang dijual di pasaran, dengan harga yang tetap terjangkau. Pada penelitian ini digunakan elemen pemanas listrik sebagai sumber panas, AVR ATmega 8535 sebagai pengendali serta sensor suhu dan kelembaban SHT 11. Metode pengendalian elemen pemanas yang digunakan adalah metode *on - off* dengan histeresis. Suhu ruang inkubator dapat diatur oleh pengguna antara 28°C – 37°C. Inkubator dilengkapi penanda saat terjadi kesalahan pada salah satu fungsi inkubator. Sistem telemetry berbasis RS 485 juga diimplementasikan pada inkubator ini, sehingga suhu dan kelembaban ruang inkubator dapat dipantau melalui sebuah komputer dari jarak jauh. Hasil pengujian menunjukkan suhu ruang inkubator dapat dijaga stabil pada kisaran 28°C – 37°C ralat maksimal 1°C. Program aplikasi antarmuka sistem telemetry dapat mengirimkan perintah permintaan data pada inkubator setiap 30 detik kemudian *data logger* akan mencatat data hasil pengukuran yang diterima dari inkubator setiap lima menit sekali.

# Inkubator Bayi Berbasis Mikrokontroler Dilengkapi Sistem

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