



SRI RAMAKRISHNA INSTITUTE OF TECHNOLOGY

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DISTRIBUTION TRANSFORMER ONLINE MONITORING SYSTEM

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SYNOPSIS

This endeavor is about the strategy and enactment of a peripatetic embedded system to screen and record the key constraints of a distribution transformer like load currents, oil level and ambient temperature. The inkling of virtual monitoring system incorporates a global service mobile (GSM) Modem, with an impartial solitary chip microcontroller and diverse sensors. It is mounted at the distribution transformer site and the above parameters are chronicled using the analog to digital converter (ADC) of the entrenched system. The acquired parameters are administered and documented in the system memory. If any aberration or a crisis situation transpires the system sends SMS (short message service) communications to the mobile receivers comprising statistics about the oddity conferring to some predefined directives automated in the microcontroller. This mobile system will aid the transformers to maneuver slickly and recognize hitches before any cataclysmic botch.