

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM



A Project Report On

“Intelligent and portable respiration monitoring and transmitting system”
(sponsored by KSCST,Bangalore)

A dissertation submitted to the Department of *Instrumentation Technology* of Visvesvaraya Technological University, in partial fulfillment for the Award of Degree of Bachelor of Engineering during the academic year 2009-2010.

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SYNOPSIS

The digital rate of respiration counter project is simplified versions of a commercially available expensive bio-medical systems used to analyse/ count the rate of respiration. i.e., in other words the rate of activity of lungs. The project mentioned here is extremely simple to operate, economical, and very compact in size compared to the present commercially available equipment.

As seen from the block diagram, the basic Digital Respiration counter consists of following sub-systems. Viz.,

1. transducer,
2. pre-amplifier,
3. Band Pass Filter,
4. Zero Crossing Detector,
5. Schmitt trigger,
6. Digital Counter Module,
7. And a Power Supply Unit.

