

**APPLICATION OF MINIATURE DATA LOGGER FOR STRAIN MEASUREMENT
IN ROTARY COMPONENTS**

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Abstract: *Electrical resistance strain gages are used extensively for measurement of strain in machine components. In case of rotary components, the transfer of strain gages signals to the indicating device for measurement of strain gage reading is very critical. Conventional techniques involving Telemetry, Slip Ring and Rotary Transformer Systems are having certain drawbacks and mainly these are very costly systems. Therefore, it is felt necessary to develop the technique, which will be cheaper than the conventional techniques and will give the acceptable results. This paper reports the development and testing of alternate system for strain measurement in rotary components.*

Key words: *Strain Measurement, Rotary, Datalogger, Strain Gage*