



UNITECH SCALES AND MEASUREMENTS PVT. LTD.

Measurement Lab [Transducer Lab] - Instrumentation Tutor - I and II



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Instrumentation Tutor - I

This comprises of temperature and speed using different methods. RTD, thermistor and thermocouple are used as sensors with digital temperature indicator to measure temperature. A small water kettle is supplied as a temperature source upto 100°C. Glass bead thermometer is used as standard temperature measurement source to conduct the experiment. Magnetic and photo reflective sensors are used to measure speed. A FHP motor with speed regulator is used as speed source. To the shaft 60 teeth tone wheels are fixed to generate pulses.

Instrumentation Tutor - II

This comprises of measurement of displacement & strain. To measure the displacement, LVDT is used as sensor of range ± 10 mm. A calibration jig with micrometer is supplied to conduct the experiment. For strain measurement cantilever beam bonded with four strain gauges is used as sensor. Pan and weights upto 1 Kg is provided to conduct the experiment. Digital readout is provided to measure the parameters.