

LEVEL MEASUREMENT TRAINER KIT

(Using Strain Gauge based Transducer)

Model : LM – 20.



EQUIPMENT DESCRIPTION :

Strain Gauge based Level Transducer Trainer Kit is designed for the students of Instrumentation Course. It allows the students to understand the concept of Strain Gauge, its application and its associated electronic circuits.

THE SET – UP CONSISTS OF :

- (i) Strain Gauge based Level Transducer
- (ii) Water container having mm marking on it, with drain out valve
- (iii) Electronic circuitry along with a 3 ½ digit DVM.

SPECIFICATIONS :

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|-------|----------------------|---|---|
| (i) | Level Transducer | : | Strain Gauge based |
| | Measuring Range | : | 0-200 mm |
| | Non-linearity errors | : | $\pm 1 \%$ |
| | Resolution | : | 1 mm |
| (ii) | Electronic Circuit | | |
| | Excitation Source | : | DC Excitation (5 Volt) |
| | Amplifiers | : | Instrumentation and Inverting Summing Amplifier with Zero & Gain adjustment |
| | Termination | : | For 4 arm strain gauges bridge. |
| (iii) | DPM | | |
| | Display | : | 3½ Digit LED |
| | Range | : | 0 – 2000 mV F.S. |

EXPERIMENTS :

To study the performance characteristics of a Strain Gauge based Level Transducer.

Note: There may be any change in specification due to continuous R & D without notice.

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