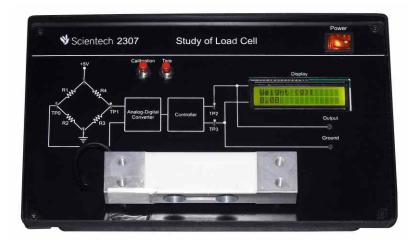
## Study of Load Cell

Scientech 2307



Scientech 2307 is a platform for the study of load cells and their application for weight measurement. Different weights are provided for linearity and sensitivity measurements. A 16x2 LCD display shows the weight in grams. PC interface is available.

## **Features**

- Self-contained and easy to operate
- Sensitive, linear, stable, and accurate
- Test-points to observe input output of each block
- 16x2 LCD displays load status
- High repeatability and reliability
- Built in DC Power Supply
- PC Interface

## **Scope of Learning**

- Study of linearity in the load cell
- Study and observe the variation in voltage across the Wheatstone bridge and after signal processing while varying the loads
- Study of calibration on load cell
- To understand "tare" in load cell
- Sensitivity determination

## **Technical Specifications**

Maximum bearable weight: 5kg.

Maximum allowed weight: 500gram.

Load cell type : Strain guage/shear beam

Bridge voltage : +5VDC

: Full Wheatstone bridge Bridge configuration

Display : 16x2 LCD

Tact switch : 2 nos. (Tare and Calibration)

Test points : 4 nos.

Controller : ATMEGA328P

ADC : 24 bit Product tutorial : Online

**Power Supply** : 230V AC, 50 Hz

: W 340 × D 240 × H 105 Dimensions (mm)

Weight : 1.5 Kg (approximately)

: 0-40°C, 85% RH Operating conditions

**Included accessories** 

Mains cord : 1 no.

Standard weights : 10 gram 1 no.

> 20 gram 1 no. 50 gram 2 nos. 100 gram 4 nos. 200 gram 4 nos.