



Sciencetech 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
Bridge configuration	: Full Wheatstone bridge
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
Dimensions (mm)	: W 340 × D 240 × H 105
Weight	: 1.5 Kg (approximately)
Operating conditions	: 0-40°C, 85% RH
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.