

Product Name :

Micro Controller Based Automatic Compression Testing Machine For
Testing Lab for Concrete Testing Lab

Product Code :

NCOT-C34

**Description :**

Micro Controller Based Automatic Compression Testing Machine for Concrete Testing - The Automatic Compression Testing Machine has all features of Micro Controller based Compression Testing Machine. In addition, it has: An automatic load release facility. Support for data transmission over distances upto several kilometers. This is useful for testing in the field. (Optional feature). Measurements of Strain with a resolution of upto 0.001 mm (optional feature). Measurement of Flexural Strength (optional feature). Facility to enter the required pace rate, at the beginning of the run

Software :

A powerful "Analysis and Reporting Software Tools" with the following features:

1. An intuitive and easy to use graphical userinterface
2. Facility to list all the runs stored in the digital head/box
3. Facility to download and plot the data for a selected run
4. Facility to save test-data along with other information about the sample such as age, sample number and batch name
5. On -line graph of Load Vs Time
6. Numerical display of the instantaneous value of the load
7. Automatic display of a breaking load at the end of the test
8. Log-in controlled multilevel access
9. A facility for creating users and enabling /disabling their log-in permissions
10. A sophisticated reporting tool which can be used to generate-Reports for individual samples with data in graphical of tabular form
11. Load Vs Time Plot
12. Stress Vs Time Plot

- 13. Calibration report
- 14. Batch Summary report
- 15. Selective deletion of individual and multiple sample records
- 16. Online Help Manual

Strain Control with the Automatic Testing Machine

In addition to measuring the stress on the cement specimen, a version of the machine is also available with the option of measuring the strain on the sample. This is achieved by installing an L.V.D.T. to measure the compression of the sample from which the strain can be calculated. With this option, the software features of the Automatic Compression Testing Machine are expanded to include the following:

- 1. Compression Vs time Plot
- 2. Strain Vs Time Plot
- 3. Stress Vs Strain Plot
- 4. Calculation of Young's Modulus of the sample

Flexural Strength Measurement with Automatic Compression Testing Machine

In addition to compression strength an attachment for flexural strength beam can also be supplied at extra cost. This is accomplished by providing a frame for testing flexural strength along with the dedicated software which can be used as an attachment to the existing system. The software features of the flexure attachment include the provision for calibration.

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