DIGITAL MICROPROCESSOR BASED SPRING TESTING MACHINE

MAKE: VERTEX | MODEL: VSLIC-STM.200 | ORIGIN: INDIA

Product Overview

Microprocessor Based Digital Spring Testing Machine VSLIC-STM.200 are known for their accuracy and test the tension and compression springs. By making use of high precision load cell, the force is measured.

The System has been designed to test springs of small range and medium range in Tension and compression. The unit has a motor which gives an accurate and controlled motion to the moving crosshead. A microprocessor based digital display unit which directly display the load in 'N' and displacement in mm.

It is suitable for operation on 220VAC supply.

Options

- Digital vernier scale with 0.01 mm resolution for displacement indication (6" or 12")
- Rotary encoder with separate digital unit 0.1 or 0.01 mm resolution
- 9 / 24 pin Dot-Matrix printer interface
- Serial interface hardware with data transfer software to computer
- Motorised loading operation.

Features

- Microprocessor based unit
- Force Measurement Accuracy +/- 1 % of indicated load or 0.5 % of full load value whichever is higher
- Quick and accurate measurement
- Interchangeable load cells
- Modulus data for load & displacement
- Optional Dot-Matrix printer interface
- Optional RS-232 Computer interface with window-based software.

Electronic Digital Display

Unit The two-channel microprocessor-based signal conditioning and display unit indicates the load being applied on the specimen and the deformation in the spring. Load is being measured by the Load cell & is indicated in 'N' with a least count of 1N. The deformation is being measure by displacement sensor in 'mm' with a least count of 0.1mm. The system receives the output signal of the both the sensors as its input and amplify the same to be displayed on the LCD display at the front panel. A communication port (RS232) is also provided in the unit to transfer readings to the computer at an interval of 1 sec till specimen failure. Reset peak key is provided for resetting the peak value of Load achieved during the test.

Technical Specification

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Model	VSLIC-STM.200
Force in Tension & Compression (N)	2000N
Clearance for Compression (mm)	500 mm
Clearance for Tension (mm)	500 mm
Maximum cross head travel	160 mm
Force measuring resolution	10 gm
Sensitivity of Load (N)	1N
Sensitivity of Displacement (mm)	0.1mm
Type	Resolution
Mechanical Scale – (standard)	1.00 mm
Digital Vernier Gauge – (Optional)	0.01 mm
Rotary Encoder – (Optional)	0.10 mm / 0.01 mm