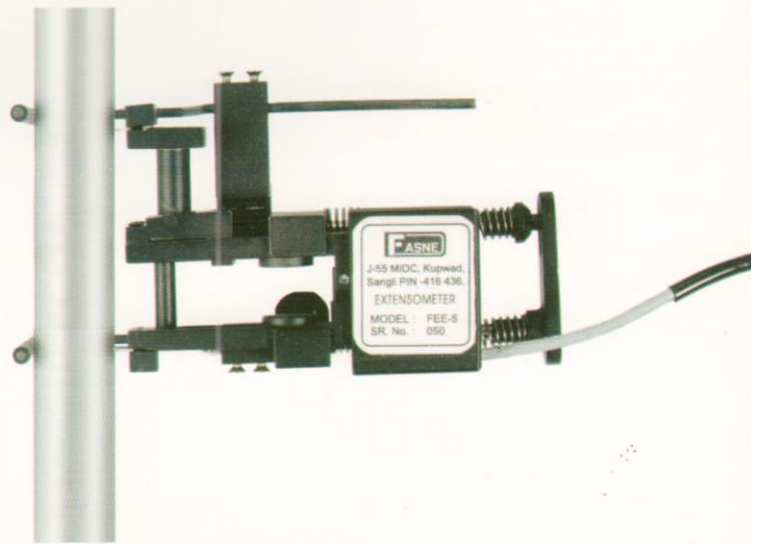
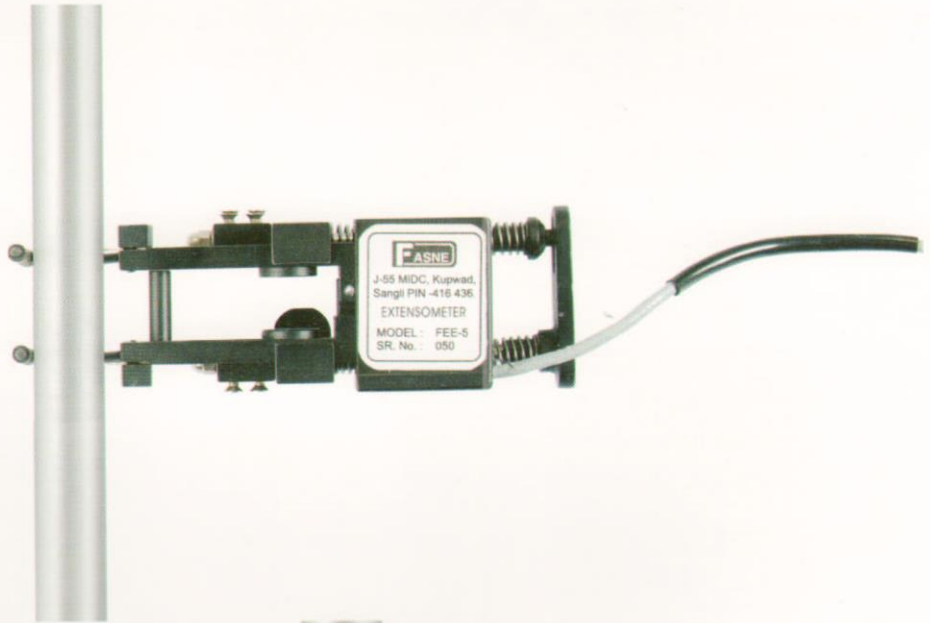
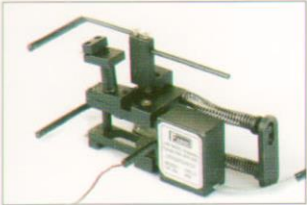
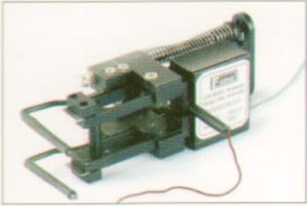
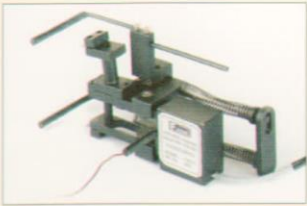
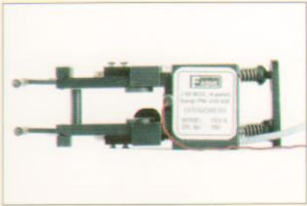
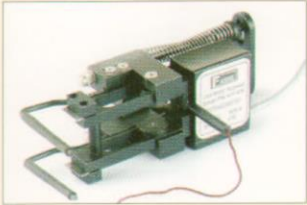




# ELECTRONIC EXTENSOMETER

Model : FEE-5



*Mastering the fine art of testing*

## ELECTRONIC EXTENSOMETER *Model : FEE-5*

This device is used for the determination of proof stress and Young's Module values. With the Extensometer it is possible to measure correct strain values within the gauge length marks during a tensile test. In case of ductile materials the stress strain curve is well defined and it clearly shows the yield point i.e. departure from the straight portion of the curve. But in certain materials like high Carbon steels, Aluminium and Magnesium alloys, the straight portion gradually follows a curve entering into plastic region, making it difficult to determine the yield point. For such cases, it is advised to find proof stress value. The proof stress is a stress corresponding to certain amount of plastic deformation after the proportional limit is passed. In specifications of materials, this plastic deformation is expressed as a certain percentage of the gauge length.

FEE-5 is specially suitable for determination of Young's modulus and 0.1% to 1.0% proof stress values. FEE-5 is suitable for almost all types of materials. The measurement accuracy satisfies all requirements of IS :12872 - 1990 / ISO: 9513 - 1989 & ASTM-E-83 class B2. Its reliable construction guarantees maximum safety of operation and longer working service/ life also in case of raised application conditions.

Specifications	
Accuracy	Class 1 as per IS 12872 / ISO 9513
Type	Strain Gauge type
Out-put	0.3 mV / V / mm (approx)
Excitation	10V, DC Nominal
Measuring range	5 mm
Nominal resistance of bridge	350 ohm
Gauge lengths	25 mm & 50 mm by means of extender (2 fixed G.L.)
Resolution	0.001 mm

### Extensometer Calibration

FEE-5 is calibrated on a calibrator manufactured by FASNE, which uses Baker digital Dial gauge. Calibrator can be offered as an optional accessory on request.

### Digital Indicator & Software (Optional)

FASNE offers a separate digital indicator with resolution of one Micron. Extensometer FEE-5 alongwith this digital indicator can be used with any mechanical / electronic machine.

**Note:** - If the Extensometer is ordered with an FASNE Make Electronic Machine, FASNE supplies a special menu driven application software which accepts load and extension values and evaluates important parameters like 0.1% or 0.2% proof stress values, etc. A graph of load Vs strain can be printed on a printer.

**We can also supply** - Universal Testing Machines, Compression Testing Machines, Tensile Testing Machines, Spring Testing Machines, Vickers Hardness Testers, Rockwell Hardness Testers, Brinell Hardness Testers, Dynamic Balancing Machines, Portable Dynamic Hardness Testers, Impact Testing Machines and Special Purpose Material Testing Machines, etc.

We reserve the rights to change the above specifications without any notice due to constant improvements in design.

Manufactured By :



### FASNE TEST EQUIPMENTS PVT. LTD.

J -55, M.I.D.C. Kupwad Block, SANGLI – 416 436. (Maharashtra - INDIA)  
Phone No. : + 91 - 233 - 2644532 / 2644332. Fax No. : + 91 - 233 - 2644334.  
E mail : san\_finetest@sancharnet.in, sales@finegrouptest.com  
Website : www.finegrouptest.com, www.finegrouptest.in

