



Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Universal Materials Tester 20kN

**Product Code :**  
LBNY-0005-1760008



#### **Description :**

The hydraulic system applies either a tensile or compressive loading to specimens. Extension of the specimen is monitored using an extensometer for work on stress/strain curves and the Modulus of Elasticity. This Universal Material Tester is a bench top unit for training purposes. The applied force to the specimens is created using a digital pressure sensor and shown on the Digital Interface supplied. An elongation sensor is also supplied for use in bending, compressive and shear testing. Simple operation and robust construction make the unit suitable for student experiments. The round threaded tensile specimens are installed between upper and lower fixings using the mating threads in each fixing. A wide variety of options are also available. Data Acquisition Software is supplied as standard to enable the test parameters to be captured, displayed, reviewed and printed.

#### **Experimental Capabilities:**

Tensile Strength Percentage Elongation  
Tensile and Compressive testing Recording of stress-strain diagrams Modulus of Elasticity testing.

#### **Technical Specification :**

Universal Material Tester Force generation using hand operated hydraulic system  
Digital Interface with PC Data Acquisition and evaluation software supplied  
Many other experiments optionally available  
Elongation of specimen monitored using linear displacement transducer  
To have maximum test force 20kN To have maximum stroke up to 150mm  
Extensometer supplied for Modulus of Elasticity testing Accessories to be changed easily and quickly  
To be supplied with all necessary tools and accessories.  
Suitable for both experiments and demonstrations

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Accessories to be changed easily and quickly.



**Laboratory Instrument India**