| **Product Name :**
Microcomputer Control Tensile Stress Relaxation Testing Machine | **Product Code :**
LBNY-0005-1550002 |

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Description :

Features:

Automatically retrieves test data and inspects the stress relaxation performance of the specimen. (e.g. stress relaxation rate, relaxed stress, relaxation rate, etc.)

Splitting the sampling stage into four sub-stages and applies different sampling cycles in consideration of the logarithm characteristic of time, improving the reliability of data greatly.

Support for 100-hour tests. Test time can be assigned at will. E.g. 24-hour test.

Algorithm to predict specimen stress relaxation performance after 1000 hours (or any specified value in hours), with the option of single or double logarithm.

Comparing a framed structure with a column-based structure, the framed structure has better stiffness that is over 2.5 times greater than the column-based structure.

Closed test space design reduces the temperature shift resulted from the air flow at the air-conditioner vent, improves the temperature uniformity and stability in the test space.

Capable of predicting with standard specimen data or real-time collected data (Suggested). Integrated with an extensive specimen library to improve the precision and reliability of testing results.

Real-time drawing of curves of remaining load with time, or temperature with time.

Closed loop control of channels such as load, displacement, deformation, etc. Smooth switching in between.

As many as 20 layers of sensor linear compensation, elevates the precision of the instruments to the next level.

Pre-installed with reaction frame, provides more convenience for the load transducer to calibrate.

Technical Specification :

Capacity : 300kN

Load measurement range: 6¾300kN
Load transducer creep : 0.03%F.S.
Temperature effect on load transducer sensitivit: 0.03%F.S./10
Load measurement accuracy: ±0.5%
Load resolution: ±1/500000 of Max capacity, no stepping, no change in full scale
Loading speed adjustment Range: 0.01% ¾2.5%F.S./s
Loading speed controlling accuracy : ±0.5%
Grip speed accuracy : ±0.5%
Grip displacement measurement accuracy : ±0.5%
Grip speed adjustment range: ¾80mm/min
Temperature measurement resolution : 0.1
Valid tensile travel: 100 mm Test space
Deformation measurement range: ¾10 mm
Max distance between left/right grip: 2450 mm
Deformation measurement accuracy : ±0.5%
Specimen dimensions
Diameter for PC steel rod: 16mm, length 3.2 m
Diameter for steel strand:12.7 mm, 15.4 mm, length 3.2 m
Power supply: 1kW/AC220V/50Hz
Weight: 1600 kg.

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