

Light Weight, Compact Size, and Easy to Handle;

Glass Strength Meter, LSM Series



Refractometer-Type Glass Strength Meter
LSM-901



Babinet-Type Glass Strength Meter
LSM-902

Glass strength meters, LSM series, exert their great performances in the quality management of strengthened glasses to those which safeness is required.

With two types of LSM series, not only measurements of stress onto glass surfaces over a wide range but also quantitative measurements of glass strength (strength degree) with high accuracy and less error has been realized.

Further, the glass strength meters of LSM series are adapted so as to be easy-to-handle, in compact sizes and light weight, allowing efficient measurements of glass strength irrespective of places for performing measurements and quality of operators.

The LSM Series will make the quality management of strengthened glasses more efficient and do provide a support for supplying safe glass products.

Glass Strength Meters, LSM Series

Refractometer-Type Glass Strength Meter

LSM-901

- This type is adapted to measure stress onto a glass surface ranging from 100 to 1,500 MPa (MN/m²).
- Since the values of stress to be applied onto thermally-strengthened glasses are directly measured with this type, the measurements can be performed quickly and with less error.
- Evaluations on chemically-strengthened glasses according to the conventional measuring methods are performable with this type by means of replacing an ocular micrometer appropriately.
- Since this type is structured in a compact size with a light weight and is adapted to be driven with a battery, it permits measurements at any places.
- The measuring procedures with using this type are simple and easy to handle for any operators.

Babinet-Type Glass Strength Meter

LSM-902

- This type is adapted to measure stress onto a glass surface ranging from 0 to 150 MPa (MN/m²).
- This type is a glass strength meter of a highly-sensitive type capable of measuring not only strength of strength-doubled glasses but also bending stress caused by a frame and micro stress such as residual stress after annealing.
- With this Babinet-type, uniform measurements can be achieved irrespective of personal capabilities of the operators.
- Since this type is structured in a compact size with a light weight and is adapted to be driven with a battery, it permits measurements at any places.
- With this type, only a small area is required for measuring stress, and a sample having a curvature can also be measured.
- The measuring procedures with using this type are simple and easy to handle for any operators.
- The measuring method is conformable to ASTM.

Primary Characteristics

Product Specification

Details	LSM-901
Manner of Measurement	Refractometer-type
Dimension	H260×D70×W140mm
Weight	1.5kg
Measurable Range	100~1500 MPa(MN/m ²)
Resolution	10 MPa(MN/m ²)
Accuracy	Whichever greater of a measured-value ±5% and a measured-value ±30 MPa(MN/m ²)
Object to be Measured	Tin face (bottom face) of a float plate glass
Light Source	Light emitting diode, 590nm
Electric Source	Dry cells of type-III (4 cells)
Immersion Liquid Used	Nd=1.64

Details	LSM-902
Manner of Measurement	Babinet-type
Dimension	H150×D150×W130mm
Weight	1.5kg
Measurable Range	0~150 MPa(MN/m ²)
Resolution	Equivalent to 1° (As reading angle)
Accuracy	Whichever greater of a measured-value ±10% and a measured-value ±5 MPa(MN/m ²)
Object to be Measured	Tin face (bottom face) of a float plate glass
Light Source	Semiconductor laser, 635nm
Electric Source	Dry cells of type-III (4 cells)
Immersion Liquid Used	Nd=1.64

— Please note that the specification and appearance of the glass strength meters might be modified without announcement.



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