Scattered Light Photoelastic Stress Meter

SLP-2000

This machine is available to measure stress distribution of chemically tempered glass which is strengthened by ion-exchange from Li+ to Na+ Using scattered light photoelasticity.

In case of that the glass is strengthened by mixed liquid KNO3 and NaNO3, K+ layer should be measured by FSM-6000LE and Na+ layer should be measured by SLP-2000. These data can be combined by special software.

***The combination requires optional FsmV dongle.**

<Standard Deviation>

Model	Wavelength	CT_CV	DOL_Zero
SLP-1000	640nm	5.65MPa	2.16um
SLP-2000	518nm	1.51MPa	1.42um
SLP-2000	405nm	1.00MPa	1.27um

- **Actual data measuring the same glass 20 times**
- **Required Refractive index and Photoelastic constant at the wavelength for measurement**

Specification

Measurement range	**: CS 0-2000MPa, DOL 10—600μm**
Measurement resolution	**: Stress 5MPa, Depth 5μm**
Measurement precision	**: 50μm or deeper from surface stress±10MPa Depth±10μm (For standard glass)**
Light source	**: LD (Wavelength 518nm) 30mw Class 3B**
Application	**: Chemically tempered glass, DIOX glass Thermally tempered glass.**
Sample shape	**: Flat-1000R 10×10mm or more**
Prism	**: nD=1.518 @ 518nm / 1.530 @ 405nm**
PC	**: Preinstalled OS, special software**
OS	**: Windows 10 professional edition**
Size (main body)	**: W 320×D280×H220mm**
Weight (main body)	**: 10kg**

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