SensRay

Distributed Fiber Optic Sensing System

Real-Time Strain & Temperature Monitoring

STR-100

1 με Precision
High-resolution strain measurement

Up to 1,000 m
Long-range distributed sensing

Real-Time Monitoring
Instant visualization and data acquisition



Structural Monitoring

Railway Infrastructure

Industrial Sensing

Smart Infrastructure

Sales: contact@cybel-llc.com | Web: www.cybel-llc.com |
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STR-100 Specifications

High-Speed Distributed Strain Sensing

MEASUREMENT	
Measurable distance	30m ~ Max. 1000m
Strain resolution	1 με
Strain measurement range	±4,000 με
Spatial resolution	1 cm ~ 100 cm
Measurement time	2 ms
Sampling interval	7 ms ~ 1 hour
Consecutive measurements	100 times

OPTICAL	
Optical Fiber	SMF
Optical Connector	FC/APC or SC/APC
Number of channels	1 ch (8 ch, 12 ch option)

SYSTEM	
Dimensions (W x H x D)	365 x 151 x 386 mm
Weight	9 kg
Power Supply	AC 100~240 V, 50/60 Hz, 100 W

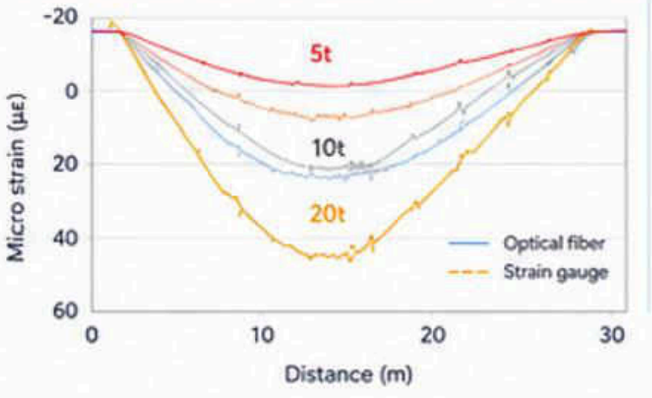
Instant Measurement with Intuitive GUI



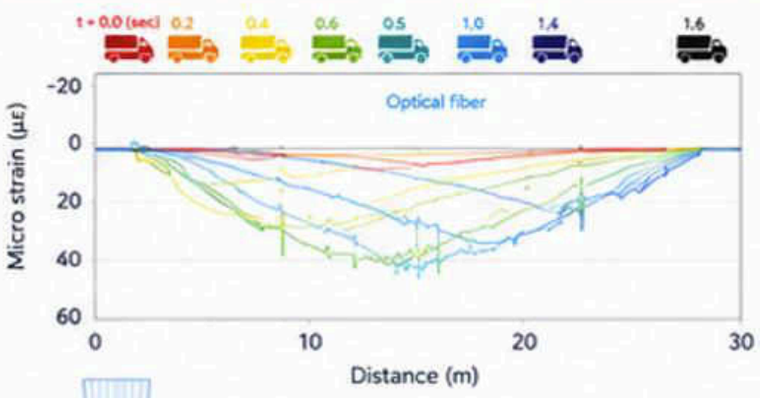
- Real-time visualization
- Compatible with analysis software via CSV output
- Rapid data analysis and reporting
- Live monitoring for confident decision-making

Application Examples

Main girder strain response as a function of vehicle weight



Live load response under a 20 ton truck



This example shows high-precision strain measurement of a prestressed concrete bridge under truck loading. SensRay accurately correlates vehicle weight with live load response, supporting reliable structural health evaluation and research applications.

Ordering Information: STR-100

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