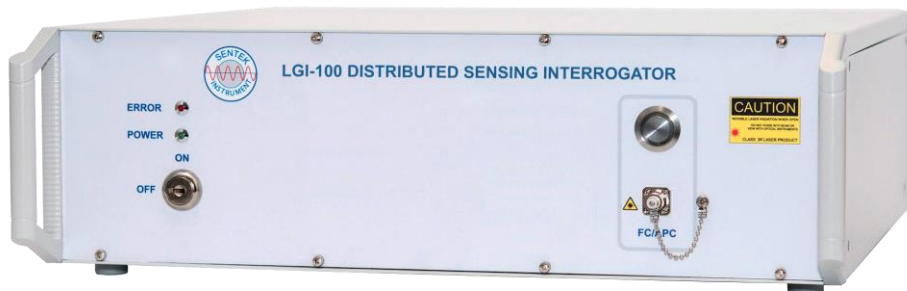


## LGI-100 Distributed Temperature & Strain Sensing System



The Sentek Instrument LGI-100 is a distributed temperature and strain sensing system. The system consists of sensors placed within the fiber optic cable, an interrogator unit and software that provides data logging and exception monitoring.

The LGI-100 series is designed to operate under harsh environments including high temperatures while providing the dual advantages of both fast response times and long range distributed temperature and strain sensing. It is the only solution on the market today that offers the combined advantages of ***less than 5s speed, 10km sensing distance and 1,000 sensor multiplexing capacity.***

The LGI-100 is the best in class solution for oil and gas well integrity, fire detection and structural health monitoring applications such as dams, tunnels, bridges, highways and railways.



**WE CHALLENGE THE IMPOSSIBLE**

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Suite 1325  
Blacksburg, VA 24060  
540.831.9693

## LGI-100 Distributed Temperature & Strain Sensing System

### Technical Specifications

Parameters	LGI-100
Temperature Precision	$\leq 0.5^{\circ}\text{C}$
Strain Precision	$\leq 5\mu\epsilon$
Data Update Rate	$< 5\text{s}$
Output Data Interface	USB
Operating Temperature	$0-50^{\circ}\text{C}$
Power	110V/220V, 60Hz/50Hz
Instrument Dimensions	13cm x 39cm x 44cm (H x W x D)
Instrument Weight	10.4kg

Fiber Coating	Acrylate	Polyimide
Long-Term Max Operating Temperature	$80^{\circ}\text{C}$	$300^{\circ}\text{C}$
Short-Term Max Operating Temperature	$180^{\circ}\text{C}$	$400^{\circ}\text{C}$
Max Number of Sensors	1,000	
Max Fiber Distance	10km	
Sensor Spacing	By Customer Input	

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