

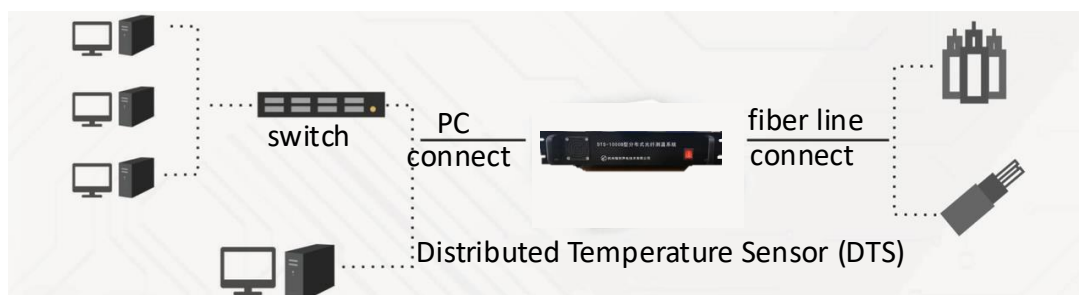
# Distributed Temperature Sensor



**DTS-1000B**

The **Distributed Fiber Optic Temperature Sensing Analyzer** is a real-time, online, and continuous monitoring system based on Raman scattering and optical time-domain scattering principles. It can realize precise detection, identification, and accurate localization of temperature.

The sensor cable, requiring no power, can provide safety warning for up to 10km, making it suitable for underground cable, oil and gas wells.



## Key Features

- Distributed measurement —— no blind spots
- Spatial positioning distance accuracy within 0.5 m
- Missing report rate of zero
- Long-distance automated monitoring —— large monitoring range
- Support remote access —— realizing unattended operation
- Online detection —— low average power consumption per unit distance

# ■ Specification



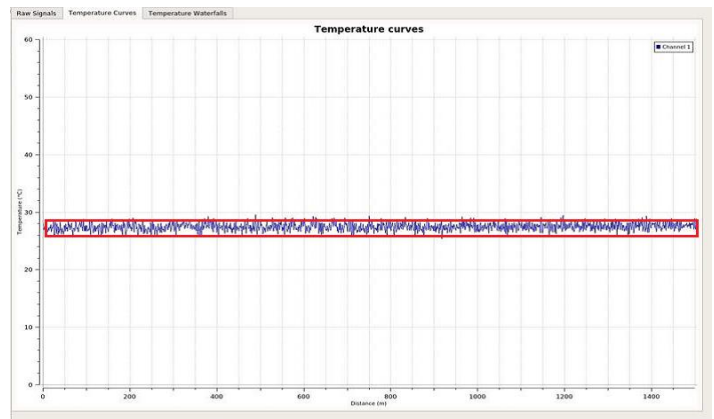
<b>Model</b>	<b>DTS-1000B</b>
Operating Distance	10km
Temperature Resolution	0.05°C@1km, 0.1°C@8km
Repeat rate of Temperature	0.1°C@8km
Sampling Space	Each 0.5m
Spatial Resolution	0.5m
Time for One measure	10s
<b>General</b>	
Built-in Channel	1 Channel
Sensor Configuration	Single/dual ports
Sensing Fiber	Multimode Fiber 50/125μm
Dimension	555L*482.6W*178H(mm)

Please note that parameters are subject to change, and we encourage you to refer to Hertzinno's official announcements for the most up-to-date information.

Hertzinno reserves the right to provide final explanations for any changes that may occur.

# ■ Application Scenario

## Automatic monitoring of underground Cable



## Automatic monitoring of oil and gas wells

