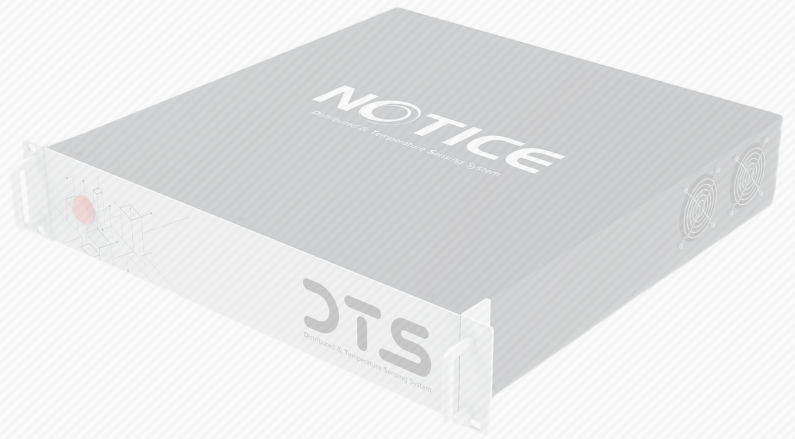




OPTICAL FIBER SENSING SYSTEM

Compact Type DTS



DTS(Distributed Temperature Sensing Systems)

DTS-C100

OVERVIEW

Our compact Distributed Temperature Sensing Systems (DTS) weigh only 2 kg, in contrast to conventional systems, and are designed for straightforward installation and operation in the field. Our DTS system presents a versatile solution capable of locally monitoring temperature using optical fiber, suitable for various industrial applications. Irrespective of the optical fiber type deployed at the installation site, our company offers both Single-mode Fiber (SMF) and Multimode Fiber (MMF) DTS variants, ensuring adaptability to specific site requirements.

Application

Our DTS can be applied in a diverse range of scenarios, including underground power tunnels, underground communication tunnels, submarine cables, fire monitoring, and prevention within buildings and surrounding facilities etc.



Feature

- Measuring distance of more than 4 km
- Single-Mode or Multi-Mode Fiber Option
- Compact size of 260(W) × 252(D) × 70(H) mm
- Very light weight of 2 kg
- Long-term measurement stability

SPECIFICATIONS

Measurement Properties		
Measurement range	> 4 km	50/125 GI-MMF
	> 4 km	SMF-28
Fire Detection Activation	≥ 7.5°C/min	
Temperature Accuracy	±1 °C	Depend on data average
Distance Identification Interval	< 1 m	
Spatial Resolution	< 2 m	10 to 90 % Step
Temperature Resolution	< 1 °C	Depend on data average
Temperature Range	-30 to 150 °C	Depend on sensor cable
General Properties		
Connector type	SC/APC	Depends on user's requirement
Number of channels	1 channel	Max. 4 channels
Interface	Ethernet	RS-485(option)
Weight	2 kg	
Dimensions	260 mm(W) x 252 mm(D) x 70mm(H)	
Power	DC +12 V (SN-10-4P)	
Power consumption	18 W	