



OPTICAL FIBER SENSING SYSTEM

Compact Type DTS



DTS(Distributed Temperature Sensing Systems)

DTS-C100

OVERVIEW

Our compact DTS(Distributed Temperature Sensing Systems) weigh only 1.7 kg compared to conventional systems and are designed for easy installation and operation in the field. Our DTS system is a product that can monitor temperature locally using optical fiber and can be used in various industrial fields. Regardless of the type of optical fiber installed at the installation site, our company has both SMF (Single-mode Fiber) and MMF (Multimode Fiber) DTS, so we can apply the product that suits the site. Regardless of the product type, our DTS operates on 1 basic channel and can be expanded to up to 4 channels.

Application

Useful in various industrial fields : Underground power tunnels, Underground communication tunnels, Submarine cables, Fire monitoring and Prevention inside buildings and around facilities, etc.



Feature

- Measuring distance of more than 4 km
- Compact size of 250(W) × 250(D) × 70(H) mm
- Very light weight of 1.7 kg
- Long-term measurement stability

SPECIFICATIONS

Measurement Properties		
Measurement range	>4 km	50/125 GI-MMF
	>4 km	SMF-28
Data measurement	Single-ended	
Spatial resolution	0.5 m	10 to 90 % Step
Measurement temp. Range	-30 to 150 °C	Depend on sensor cable
Temperature resolution	±0.5 °C	Depend on data average

General Properties		
Connector type	SC/APC	Depends on user's requirement
Number of channels	1 channel	Max. 4 Channels
Interface	RS-485	Ethernet(option)
Weight	1.7 kg	
Dimensions	250 mm(W) x 250 mm(D) x 70mm(H)	
Power	DC +5 V	
Power consumption	26 W	