

DATA CENTER APPLICATION

Live temperature monitoring for data center bus ducts and busways

Locate hot spots by distance and link alarms to named joints.

A fiber-optic sensing cable follows the busway and measures temperature continuously. The software shows the live profile, route map, thermal history and active alarms.



Planck Sensing DTS. Standard 19-inch 2U rackmount platform.

0.3 m spatial resolution | **1 s** per channel | **4** optical channels

Application highlights

CONTINUOUS ROUTE	Temperature displayed by distance along the monitored busway.
NAMED LOCATION	Channel, joint ID and route distance stay together.
LIVE + HISTORY	Current profile, alarm status and thermal history in one application.
EASY INTEGRATION	Supports customized API interfaces for data and alarms, as well as dedicated alarm relay outputs.

5 KM MODEL Representative specifications shown. DTS complements electrical protection and inspection procedures.

LIVE TEMPERATURE PROFILE

Live profile and alarm location

The live view combines channel identity, route position and current alarms.



Temperature peaks align with named joints and alarm zones.

Read the live view

CHANNEL

Channels keep separate monitored busways visible.

ROUTE

J-01 to J-09 connects joint IDs with distance positions.

ALARM

Severity, measured value, limit, location and time stay together.

Mapped route detail

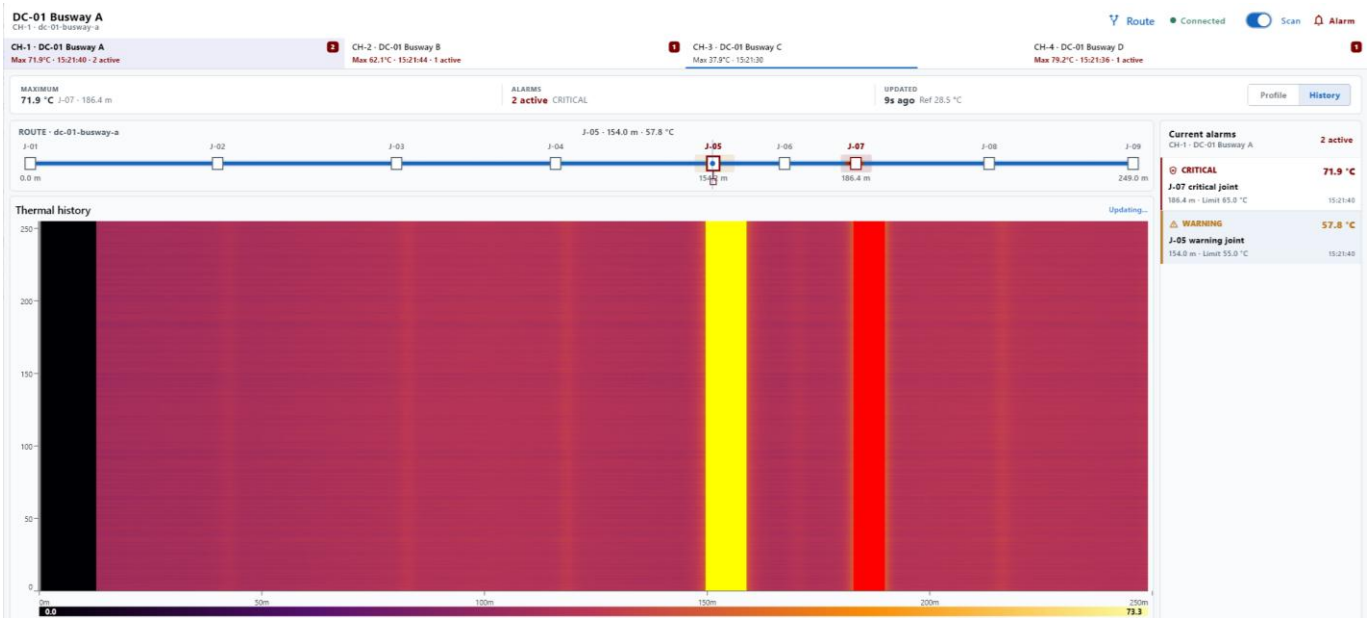
Build an easy route map that works right away.



THERMAL HISTORY

Reveal Persistent Hot Spots with Thermal History Waterfall Plots

Repeated heating appears as a stable band at the affected route location.



The history and profile views were captured at different scan times.

5 km DTS specifications

SPECIFICATION	PS-DTS-5KM-MM-E2000-01
Sensing range	Up to 5 km
Measurement time	1 s per channel
Spatial resolution	0.3 m
Temperature resolution	0.1 °C
Temperature accuracy	+/-2 °C at 2 km, 6 s
Optical channels	4 with optical switch
Standard cable range	-20 to +120 °C
System format	19-inch 2U rackmount
Interfaces	RS485 Modbus; Ethernet; REST API; WebSocket

DISCUSS YOUR ROUTE Share the busway layout, joint locations and alarm requirements for a project-specific DTS configuration.

info@plancksensing.com | www.plancksensing.com

Specifications are based on the current PS-DTS-5KM-MM-E2000-01 sheet and are subject to change.