

Smart Bus Duct Monitoring

Bus duct structures are used to distribute high currents within large buildings, naval vessels, cleanrooms, data centers and factories. A bus duct construction typically has many joints, which are prone to failure over time (loose screws, air gaps, deteriorating insulation, overheating when dealing with large and variable current loads or due to a lack of maintenance or poor cooling techniques).

Overheating is not only inefficient, it can also lead to hot spots and the risk of fire or explosion, threatening assets and personnel, with potentially long downtimes.

The passive sensor cable used in FiberStrike's DTS (Distributed Temperature Sensing) solution is immune to dirt, dust, humidity, corrosive materials and EMI (electromagnetic interference).

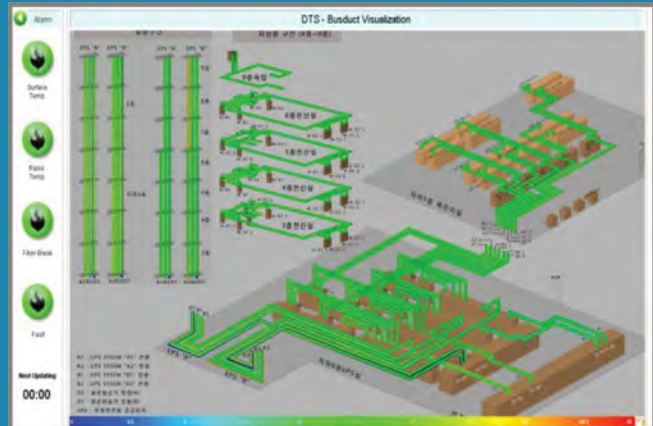
Conventional thermal imaging systems are only activated over long-term intervals – typically, only once per quarter – and are time- and labor-intensive, leading to higher costs. They also do not cover the entire length of the bus duct – the fiber-optic sensor cable provides gapless monitoring 24/7.



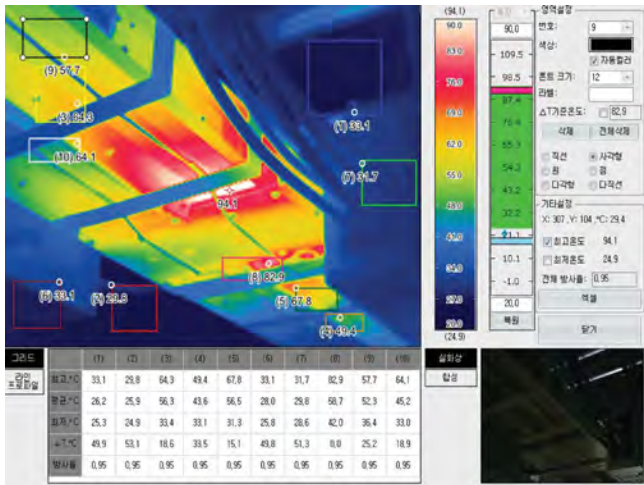
Thermal image of the hot spot on the bus duct



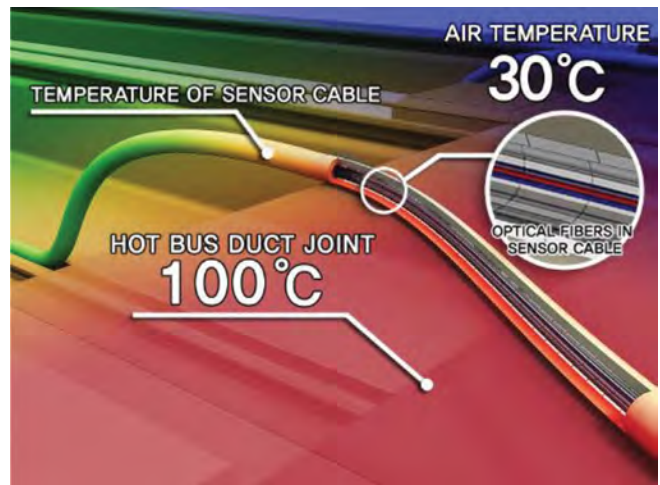
FiberStrike Linear Heat Series and fiber optic sensor cable



3D asset visualization

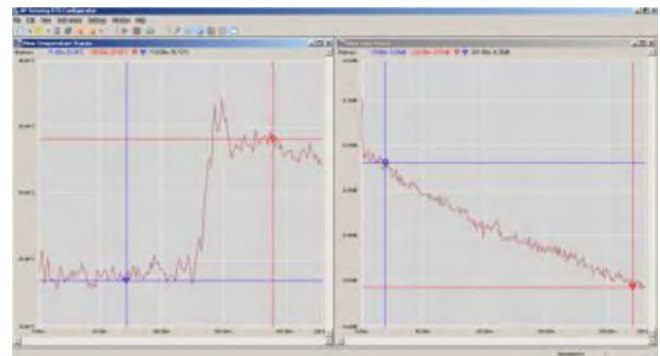


Linear Heat Series device



Fiber inside the sensor cable clearly detects hot spots at joint

With FiberStrike's proven solution, you have continuous monitoring of the entire bus duct infrastructure. Hot spots are immediately detected and precisely located. The visualization software gives you an easy to read 3D view of your asset, so you can react before an incident can occur.



DTS Configurator and temperature profile to verify the integrity of the sensor cable

Features

- Passive sensor cable
- Quality components, extensive testing low-power laser, market-leading certifications
- Early detection and asset visualization 24/7
- FiberStrike's legacy and experience (>35 years Hewlett-Packard/Agilent)

Benefits

- Easy to install, immune to dirt, dust, humidity, corrosion, EMI, maintenance-free, gapless monitoring, precise localization
- Unsurpassed reliability, long product lifetime
- Mitigate risks and large potential damages
- Industry's most robust and reliable instrument, hundreds of satisfied customers worldwide

