

DTS-F Multi-Channel Linear Heat Detection System

DTS-F is a fiber optic temperature sensing system for real-time temperature monitoring and fire detection. DTS-F keeps your tunnels and facilities safe and sends fire detection alerts. DTS-F can also detect abnormal temperature changes in electrical cable lines and send early warnings of heat spots.



DTS-F Technical Details

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|-------------------------------|---|
| Fiber Optic Cable | Multi mode 62.5/125 as standart |
| Detection Channels | 1/2/4 |
| Detection Distance | Up to 10 km |
| Detection Technology | Duplex Single Ended/ Double Ended Raman Distributed Temperature Sensing |
| Operating Life | > 10 years (dependent on operating environment and regular maintenance) |
| Detection Resolution | 1m (3.28) between detection points along sensing fiber (1000 measurements per km of sensing fiber) |
| System Interface | Web 2.0 |
| Sensor Sections | Software configurable, independent sensor sections (detection zones) |
| Temperature Range | Sensing Cable: -20 to +70 °C / DTS-F Device: 0 to +50 °C |
| Temperature Resolution | 0.1 °C@10s, 2km / 0.3 °C@10s, 10km |
| Temperature Accuracy | ±1 °C |
| Connection Ports | TCP/IP (Ethernet), MODBUS/TCP, MODBUS/RTU |
| Inputs and Outputs | FC/APC Multi mode optical connector (back, for sensing cable) 1x USB2 ports (on back) 1x Ethernet ports (10/100/1000 Mbps, on back), 50 Relays (on back) |
| Power Supply | 110 to 240 Vac, 47 to 63 Hz, auto ranging |
| Power Consumption | 85 W typical, 125 W max |
| Dimensions / Rack | 49 cm (19") x 50 cm x 8.9 cm (2U), 8kg |
| ~Clearance/Weight | |
| Laser Safety Class | Class 1 (IEC 60825-1, 21 CFR1040.10), shutoff: key switch on front panel |
| MTBF | > 80,000 hours |
| Warranty | 2 years, with optinal per year warranty extension available. |

Contact Details:

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