

DTS-L Single Channel Linear Heat Detection System

DTS-L is a fiber optic temperature sensing system that can be used easily in different leak detections and fire. DTS-L keeps your pipelines safe and sends early warnings of leaks. DTS-L detects any kind of leaks such as gas or liquids along a line spanning several kilometers.



DTS-L Technical Details

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| Fiber Optic Cable | Single-mode fiber optic cable |
| Detection Channels | Single fiber channel of real time independent leak detection |
| Detection Distance | 40 km |
| Sensing Technology | Single Ended Raman Distributed Temperature Sensing (RDTs) |
| Operating Life | > 10 years (dependent on operating environment and regular maintenance) |
| Detection Resolution | 1m (3.28 ft) 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: -40~70 °C / DTS Device: 0~40 °C (AC environment) |
| Temperature Resolution | 0.25 °C @ 20s, 15km 1 °C @ 3minute, 40km |
| Temperature Accuracy | +2 °C |
| Connection Ports | TCP/IP (Ethernet), MODBUS/TCP, MODBUS/RTU |
| Inputs and Outputs | FC/APC single mode optical connector (back, for sensing cable) 1 x USB2 ports (on back) 1 x Ethernet ports (10/100/1000 Mbps, on back), 50 relay |
| Power Supply | 110 to 240 Vac, 47 to 63 Hz, auto ranging. |
| Power Consumption | 85 W typical, 125 W max |
| Dimensions / Rack -Clearance / Weight | 49 cm (19") x 50 cm x 8.9 cm(2U), 8 kg |
| Laser Safety Class | Class 1 (IEC 60825-1, 21CFR1040.10), shutoff: key switch on front panel. |
| MTBF | > 80,000 hours |
| Warranty | 2 years, with optional per year warranty extension available. |

Contact Details:

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