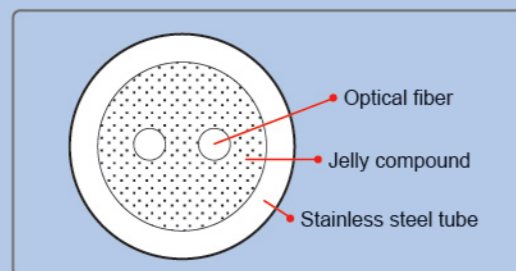
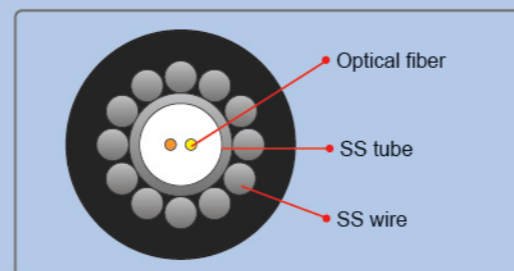


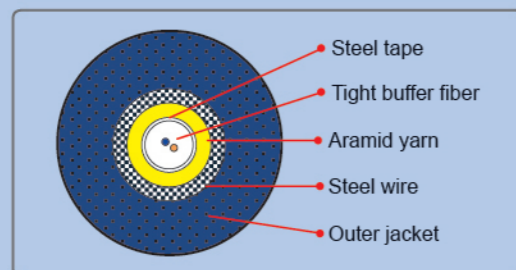
Sensing Cables



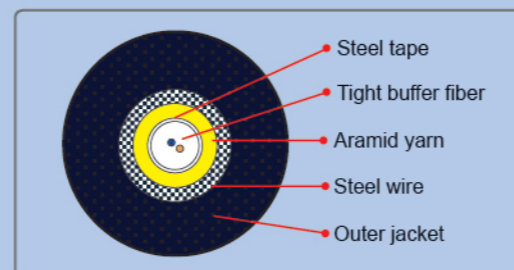
Stainless steel loose tube type



Stainless steel wire armored type



Steel tape and wire armored type



Spiral steel type



Distributed Temperature Sensing System [DTS]



DTS Series



TS3000



TS3000M



FD3000



Rack System

LEA-TS3000-02

TS3000



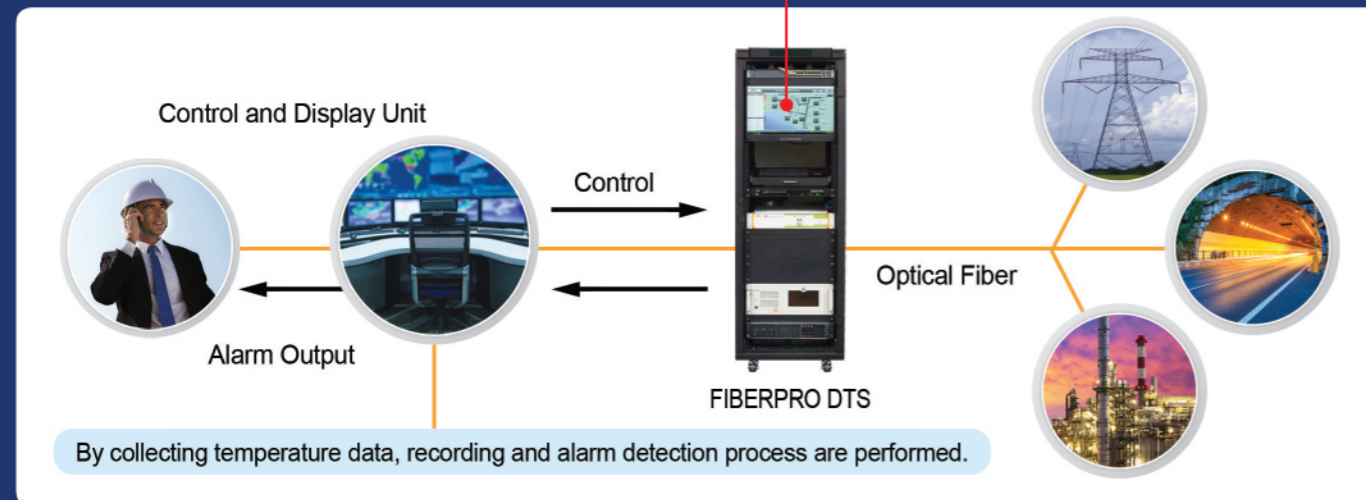
Distributed Temperature Sensing System [TS3000]

FIBERPRO's Distributed Temperature Sensing (DTS) System, TS3000, measure ambient temperatures along the entire optical fiber cable which is functioning as linear sensor. TS3000 provides excellent flexibility to meet clients requirements in various applications.

Features

- Raman scattering based DTS
- Max. 16 channels
- High temp. accuracy
- Wide temp. sensing range
- Insensitive to the electromagnetic interference (EMI)

System Configuration



Applications

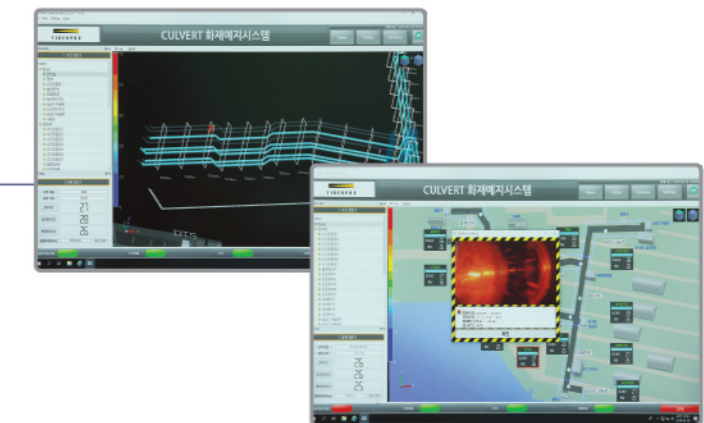
- Tunnel & Large facility fire surveillance
- Power plant & Tower temperature monitoring
- Factory temperature state monitoring
- Oil & Gas pipeline surveillance of leaks
- Geothermal temperature monitoring
- Others



Specifications

| Performance | |
|-----------------------------|---|
| Distance Range | 5 km, 10 km, 15 km ⁰⁾ |
| Measurement Time | 10 ~ 600 sec |
| Temperature Resolution (1σ) | < 0.5°C ¹⁾ |
| Temperature Accuracy | < ±2°C (P to P) ²⁾ |
| Minimal Spatial Resolution | < 2 m @ 2.3 km |
| Minimum Sampling Interval | 0.5 m, 1 m |
| Sensing Temperature Range | -200°C ~ +700°C ³⁾ |
| Hardware | |
| Number of Channel | 1, 2, 4, 8, 16 |
| Sensing Fiber Type | MMF 50 / 125 um (Graded index) |
| Connector Type | E-2000/APC, FC/APC or SC/APC |
| Operating Temperature | -20°C ~ +60°C |
| Storage Temperature | -40°C ~ +85°C ⁴⁾ |
| Electrical Power | AC 100 ~ 240 V, < 250W Typ. |
| Dimensions (W x D x H) | 600 mm × 1000 mm × 1800 mm (Rack cabinet) |
| | 445 mm × 435 mm × 177 mm (TS3000 only) |
| Weight | < 10 kg |
| Certification | KC (including KFI), CE |
| Interfaces | LAN, RS-232 (Data reading only) |

- 0) Ask us for longer distance
- 1) Measurement time 600 sec, standard deviation over distance
- 2) Measurement time 60 sec
- 3) Depending on sensing fiber coating material
- 4) Non-condensing



Ordering Code

TS3000 - (1) - (2) - (3) - (4)

- 1. Distance ➔ 5 km(5), 10 km(10), 15 km(15)
- 2. The number of channel ➔ 1ch(1), 2ch(2), 4ch(4), 8ch(8), 16ch(16)
- 3. Port location ➔ Front(F), Rear(R)
- 4. Connector type ➔ E-2000/APC(E/A), FC/APC(F/A), SC/APC(S/A)