

# VI·A·V·I

## Distributed Temperature Sensing (DTS)

Distributed Fiber Optic Sensing solution for measuring Temperature using single ended Raman OTDR

With over 40 years of experience in fiber optic test equipment for field measurements and monitoring systems, VI·A·V·I migrates its knowledge and technology to Distributed Fiber Sensing Applications.

The VI·A·V·I Distributed Temperature Sensing (DTS) solution is based on Raman scattering technology. Measure the temperature along a fiber optic cable or optical loss/attenuation, bend detection and integrity monitoring (Patent pending) with the integrated dual wavelength Rayleigh OTDR.

It can be configured in a portable platform for cable commissioning and routine auditing or in rackable platform for permanent monitoring through the most widely deployed remote fiber test system, the ONMSi.



**OneAdvisor 800 DTS**



**FTH-DTS**

### Key Benefits

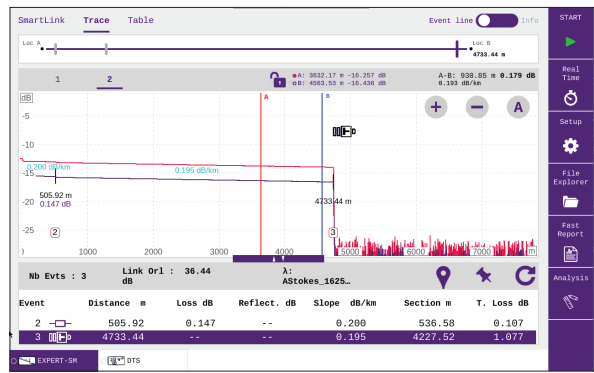
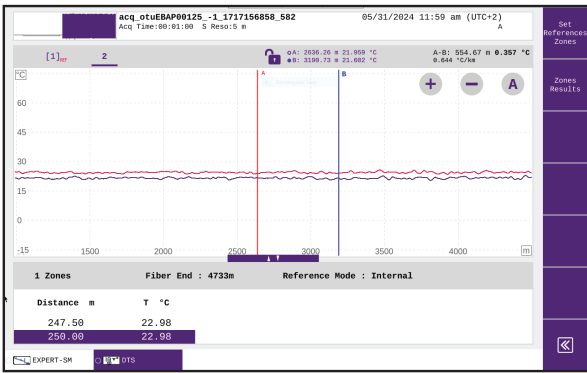
- Dual wavelength source measurement for automated temperature calibration
- Single-ended solution requiring only one fiber for both DTS and OTDR i
- Efficient remote operation, minimal training required
- Portable: compact, battery-operated, lightweight (no power generators needed)
- Rackable: Fully compatible with VI·A·V·I Fiber Monitoring solution (ONMSi), offering multi-port measurement (up to 192 ports, and more)

### Key Features

- Dual wavelength single mode Raman and Rayleigh OTDR in one package
- Intuitive, modern, user interface with large touchscreen
- Multi-port measurements
- Low power consumption – rackable version
- Battery operated – portable version
- Connected product (Bluetooth, WiFi and remote control operation with Smart Access Anywhere (SAA))

### Applications

- Pipeline monitoring (leak detection)
- Power cable monitoring (hot spots, RTTR, burial depth)
- Geotechnical monitoring
- Linear heat detection for fire detection and safety
- Geothermal wells, oil and gas downhole monitoring



## Applications



### Radiation and temperature monitoring

- Harsh environment



### Structural Health Monitoring

- Dam, Dike and Pile monitoring



### Pipeline monitoring

- Leak detection



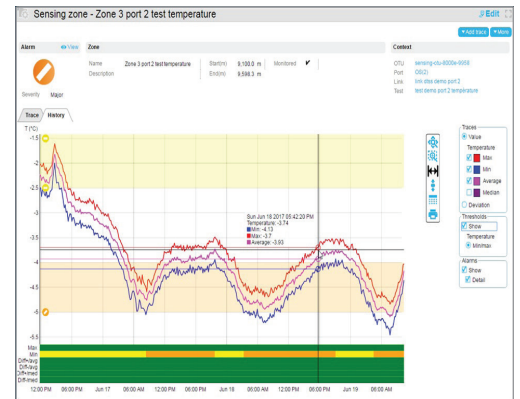
### Power Cable Monitoring

- Hot spot detection and localization, RTTR and Burial Depth

Compatible VIAVI application software expands your capabilities:

**Remote Access Application:** SmartAccessAnywhere (SAA), App enables Workforce support in real time; Remote control of VIAVI Interrogator; data files, reports transfer, or firmware upgrades

**Optical Network Monitoring System (ONMSi):** The ONMSi platform enables permanent, proactive monitoring of the fiber integrity, as well as temperature for a complete analysis of the fiber health.



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