

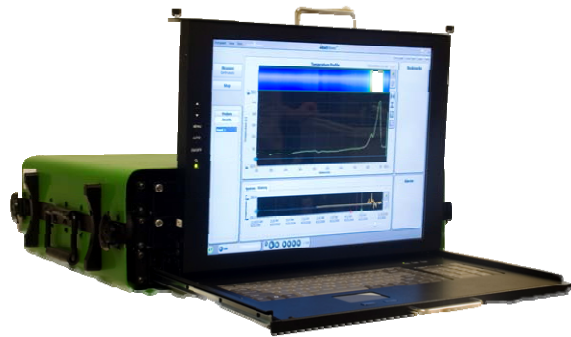
Distributed Temperature Sensing System

Overview

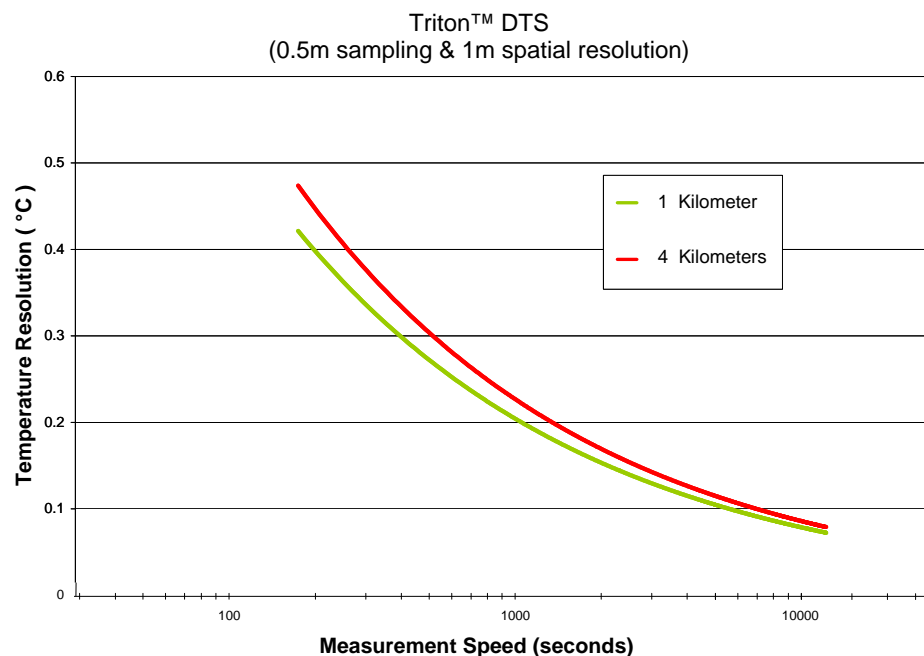
Triton™ is a cost-effective portable Distributed Temperature Sensing (DTS) system that offers fast and repeatable measurements. Triton™ is configured to be used with standard multimode optical fiber and supports up to 4 internal channels in a compact, portable, shock-mounted case. Each Triton™ FieldArmor™ package contains an optics module, a data acquisition module and an integrated screen and a keyboard. Triton™ systems provide accurate temperature measurement points every meter up to a range of 4km.

The Triton™ system has an integral single board computer, pre-loaded with SensorTran's DTS Commander™ software. DTS Commander™ provides for configuration, calibration, communication, alarm, autonomous operation, and basic data display functions. The software also allow the user to assign an unlimited number of alarm zones. Each of these zones is capable of reporting a variety of alarm conditions. The DTS Commander™ is available in several language options.

SensorTran's DataViewer™ is an optional software product that provides a graphical visualization of the temperature data. The DataViewer™ is automatically configured from the settings within SensorTran DTS Commander™ software and requires no additional setup. The software simultaneously displays multiple temperature profiles, summary temperature data, and alarm status information for each zone. Recorded data can also be replayed using the powerful Data Control facility to view historical events at various speeds.



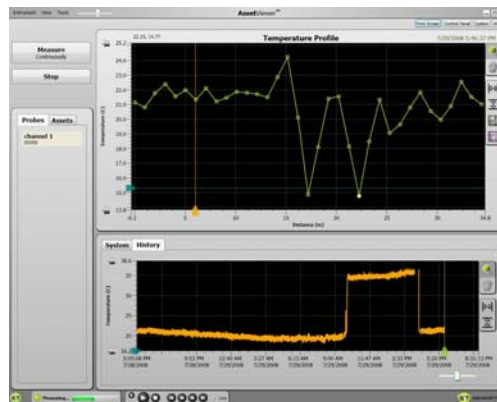
Triton™ Portable DTS System



Performance Features

Sample Screenshot

Spatial Resolution	1.0 meters [3.3 feet]
Sampling Resolution	0.5 meters [1.64 feet]
Temperature Accuracy	+/- 0.75°C [+/- 1.35°F]
Measurement Range	up to 4km [2.5 miles] per channel
Temperature Resolution	See Graph on Previous Page



SensorTran DTS Commander™

Product Specifications	
Processor & Data Storage	Single-board network-enabled single CPU processor with 160GB hard disk storage as standard
Channels	2 as standard (1 or 4 channels optional)
Software	SensorTran DTS Commander™ software (available in a selection of multiple languages) running on Microsoft Windows XP. SensorTran DataViewer™ software available as option
Communication Ports	2 x RJ45, 1 x DB9, 2 x USB, 1 x VGA, 1 x Keyboard
Communication Protocols	Ethernet -TCP/IP, RS232, as standard. (Modbus, OPC, and DNP3 are optional for Triton™)
Remote Access and Control	Full remote control and data access capability
Diagnostics	Advanced and extensive self-diagnostics with soft shut-down and self-start functionality
Data Zones and Alarms	Unlimited zone configuration. High temperature and rate of temperature change alarms configurable for each zone as standard
Optical Fiber Compatibility	Standard telecommunications graded index 50µm multimode fiber
Laser Safety	Class 1 to IEC 60825-1
Operating Environment	Temperature: -10°C to +40°C [+14°F to 104°F] Humidity: <90% RH, non-condensing
Unit Dimensions	165mm x 508mm x 533mm [6.5" x 20" x 21"]
Unit Weight	23.6 kg (52 lbs) max
Power	24VDC / 125 W max (110VAC external power supply optional)
Certifications	FCC 47 CFR, Part 15 Subpart B Class A; ANSI C63.4 Class A; Electromagnetic Compatibility (2004/108/EC)EN 61000 3-2, 3-3; EN 61000 4-2, 4-3, 4-4, 4-5, 4-6, 4-8, 4-11; EN61000 6-2, 6-4; CE Marked

SensorTran has made every effort to ensure that information contained in this document is accurate at the time of printing, however, product specifications and features are subject to change without notice. As this is a draft version of this data sheet, significant changes are reasonable to expect, although the performance metrics will meet or exceed the values indicated in this document.

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