

ASTRA™



SENSORTRAN
Optical Conclusions

5km Product Specifications

SensorTran's Astra™ value-driven family of DTS systems offer accurate and timely thermal event information that allows users to draw *optical conclusions*™ with confidence. With unlimited zoning and alarming capabilities, Astra™ systems are suitable for a wide range of industrial applications.



Astra™ Rackmount

Performance

Measurement Range	Up to 5 km
Spatial Resolution	1 meter
Sampling Resolution	0.5 meters
Accuracy	± 1 °C
Temperature Resolution	Typically < 0.07 °C @ 5 km (see graph on reverse)
Measurement Speed	Down to 10 seconds

Hardware

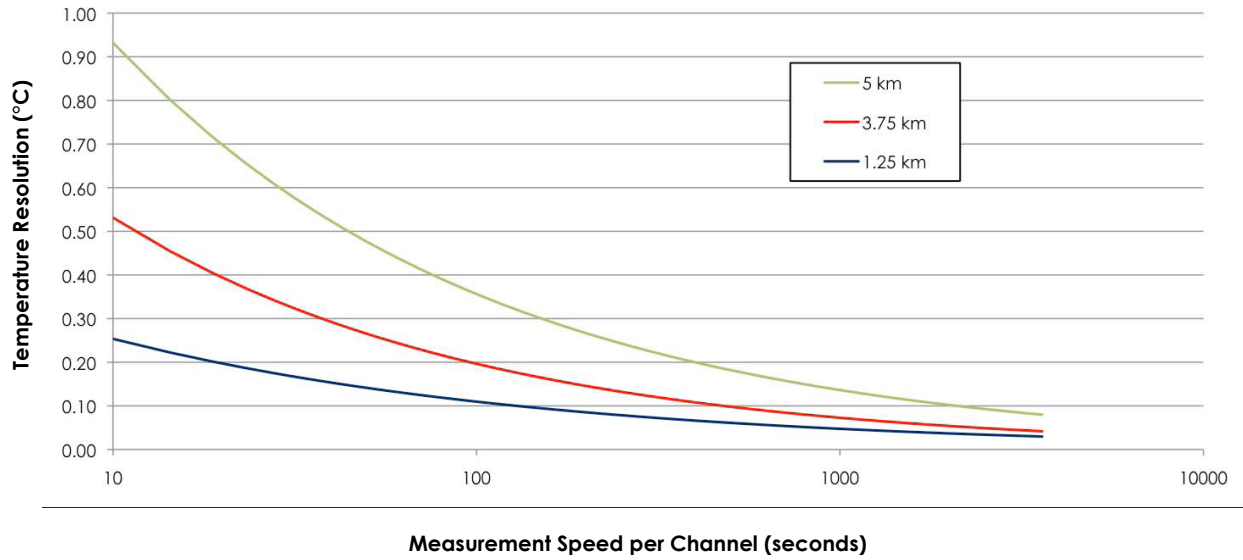
Laser Safety	Class 1M to IEC60825-1:2007	
Operating Environment	0 °C to 40 °C (standard)	
Storage Environment	-20°C to +60°C	
Processor & Data Storage	1.66 GHz single-core processor, 160 GB solid-state hard drive	
Optical Channels	1, 2, 4, 8, 12, or 16 with E2000/APC connectors	
Optical Fiber Compatibility	50 µm graded index multimode fiber	
Certifications	IEC60825-1, UL61010-1, CE marked, MET marked (US, Canada)	
Packaging	Rackmount	Portable
Power (AC or DC)	110 - 240 VAC: Peak = 40W, Typical = 37W 18-36 VDC: Peak = 50W, Typical = 43W	110 - 240 VAC: Peak = 64W, Typical = 61W 18-36 VDC: Peak = 71W, Typical = 64W
Dimensions & Weight	48.3 cm (w) x 43.2 cm (d) x 8.9 cm (h) 7.7 kg	55.3 cm (w) x 51.8 cm (d) x 16.0 cm (h) 19 kg (with Case & LCD/Keyboard Drawer)

Software & Communications

Standard Software	Embedded OS (WES 7), DTS Commander™
Application Software	AssetViewer™, Dynamic Cable Rating Software (optional)
Communication Ports	Ethernet x 2, USB x 2, RS232 x 1, PS2 x 1, VGA x 1
Communication Protocols	Optional: Modbus TCP or RTU, OPC, DNP3, WITSML, Profibus*, RS422*, RS485* (*w/converter)
Data Zones & Alarms	Unlimited zoning configuration with alarming capabilities for each zone
Relays (Optional)	16 internal SPST or DPDT, or external module
Remote Access	Full operator remote control and data access capabilities
Diagnostics	Realtime diagnostics for remote support, system health alarms

NOTE: Specifications are subject to change without notice.

Astra™ 5 km DTS Performance



NOTE: Representative temperature resolution data taken on Draka GI MM fiber with measured optical attenuation of 0.50 dB/km @1300nm and 2.30dB/km @ 850nm.

Astra™ Model Configuration

AST – UU – VV – X – YY – ZZ

UU - Range [05 = 5km, 10 = 10km, 15 = 15km]
 VV - Optical Channel count [1/2/4/8/12/16]
 X - Package [P = Portable, R = Rack]
 YY - Internal Relays [00 = No relays, 16 =16 relays]
 ZZ - Power [AC/DC]



AST-05-08-P-00-DC



SENSORTRAN

Optical Conclusions

Contact

Headquarters	4401 Freidrich Lane, Bldg. 307 Austin, TX 78744 USA	+1-512-583-3520 +1-866-333-2861 (toll-free USA)
Oil, Gas, & Geothermal Sales	262 N. Sam Houston, Suite 410 Houston, TX 77060 USA	+1-281-445-9119
Power, Pipeline, & Process Sales	4401 Freidrich Lane, Bldg. 307 Austin, TX 78744 USA	+1-512-583-3547

www.sensortran.com

sales @ sensortran.com