

JDA DTS-LA

(Long range) Specification sheet



The JDA DTS is the most technologically advanced distributed temperature sensing system today. The system is packaged in a standalone unit which contains both the sensing optoelectronics and an onboard PC. The system operates with an intuitive, user-friendly software interface (based on Windows 2000), making it a simple-to-use and easily

transportable system. The system has been designed with safety in mind and has been tested to some of the industries most rigorous standards. The system is optimised for measurements on single-ended cable installations, but with the addition of a multiplexing module it can easily be configured to produce double ended measurements.

SUMMARY OF SENSING CAPABILITIES

Range	Temperature resolution	Spatial resolution	Speed
0 - 10km/ 0 - 32,800ft	From 0.01°C, with 1m spatial resolution	From 1m/3.2ft	Measurements from once every 10 seconds

OPERATING ENVIRONMENT

Operating temperature	Storage temperature	Humidity
+5°C to +40°C	-10°C to +55°C	5-80% relative humidity – noncondensing

POWER REQUIREMENTS

AC Power	DC Power	Power consumption
90V – 240V (full range), 50Hz – 60Hz	24V (requires optional power adapter)	150W maximum

CERTIFICATION AND COMPLIANCE

Laser Safety	EMC	CE Mark
The JDA DTS-LA has been independently classified to EN 60825-1 (2001-03) as a Class 1M laser product.	EN61326:1997/A1:1998 Conducted Emissions: Class B Radiated Emissions: Class A* EN 61000-4-3:1996 EN 61000-4-6:1996 EN 61000-4-4:1995 EN 61000-4-2:1995/A1:1998/A2:2001 EN 61000-4-11:1994 EN 61000-4-5:1995 EN 61000-3-2:1995 EN 61000-3-2:2000 EN 61000-3-3:1995	Accordance with 89/336 EEC EMC Directive Accordance with LVD 72/ 23 EEC Directive: EN 41003 EN 50178 EN 60065 EN 60825-1 EN 60950 EN 61010-1 *Excluding monitor and keyboard

PHYSICAL DIMENSIONS

Height	Width	Depth	Weight
175mm/ 6.9inches	483mm/ 19inches	445mm/ 17.5inches	21kg/ 46lb

JDA DTS-LA

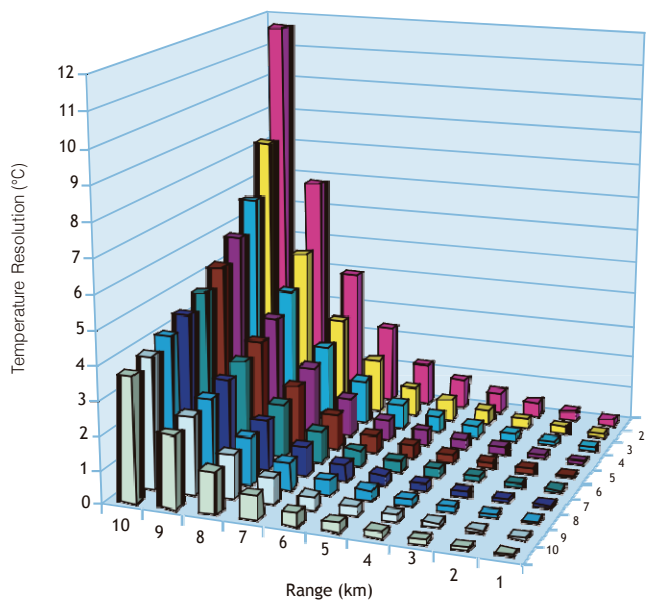
(Long range)

Product Capabilities

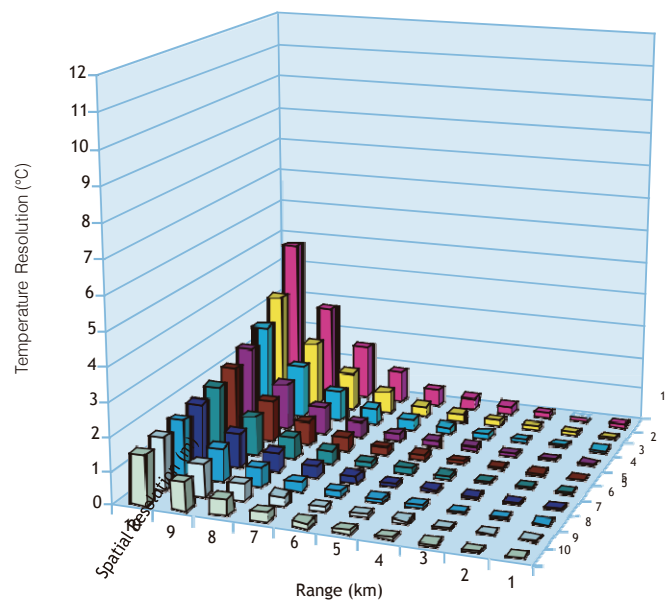
With the JDA DTS systems (as with all DTS systems) there is a trade-off between temperature resolution, spatial resolution, range and speed of measurement (e.g the more time you allow the box to gather data the better the temperature resolution). Using the intuitive calibration wizard the user is able to define the required spatial resolution,

measurement time and range – and this will define temperature resolution achieved by the system. The following graphs illustrate the temperature resolution achieved for the JDA DTS-LA systems for the following measurement times: 10 seconds, 1 minute, 10 minutes and 1 hour. Further specifications are available from JDA on request.

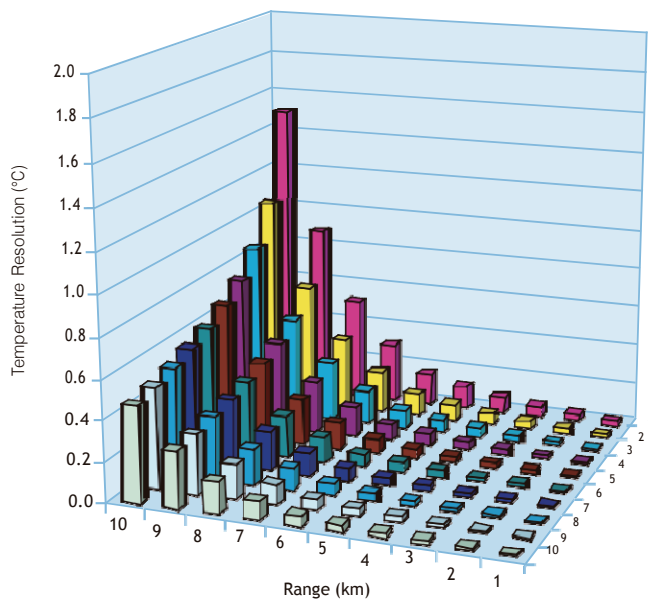
DTS capability – 10-second sampling



DTS capability – 1-minute sampling



DTS capability – 10-minute sampling



DTS capability – 1-hour sampling

