

The Halo-DTS is Sensornet's revolutionary DTS system that sets new standards in value and performance.

For industrial monitoring applications where reliability, safety and seamless system integration are essential, the compact, low-power, user friendly Halo-DTS is the ideal solution to close your monitoring gap. The system features an inbuilt multiplexing module (4 channels) enabling up to 4 single ended measurements or 2 double-ended measurements.

User configurable zones and alarms functionality are also available for a wide variety of applications. The system is packaged in a standalone unit which contains both the sensing optoelectronics and an onboard PC. The system operates with an intuitive software interface (based on Windows OS), making it a simple-to-use system. The system has been designed with safety in mind and has been tested to some of the industry's most rigorous standards.



## Summary of sensing capabilities

RANGE	CHANNELS	TEMPERATURE RESOLUTION	SAMPLING RESOLUTION	FIBRE TYPE
0-4km	4	See reverse	2m	Multimode

## Operating environment

OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY
0°C to +40°C	-15°C to +65°C	5% to 95% relative humidity, non-condensing

## Power requirements

AC POWER	DC POWER	POWER CONSUMPTION
100V - 240V, 50Hz - 60Hz	24V or 48V supply option available	40W - 50W maximum

## Certification & compliance

**Safety:** The Halo DTS has been independently classified to EN 60825-1 (2001-03) as a Class 1M laser product.

### EMC

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

\*\* Excluding monitor and keyboard

### CE MARK

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

### ATEX - EX

Zone 2 II (3) G [Ex op is T4 Gc] IIC equipment in accordance with  
EN 60079-0:2012;  
EN 60079-28:2015



## Physical dimensions\*

HEIGHT	WIDTH	DEPTH	WEIGHT
87mm (3.4 inches)	435mm (17.1 inches)	445mm (17.3 inches)	9kg (22lb)

\*Fits in standard 19 inch rack mounting.

All details are subject to change.

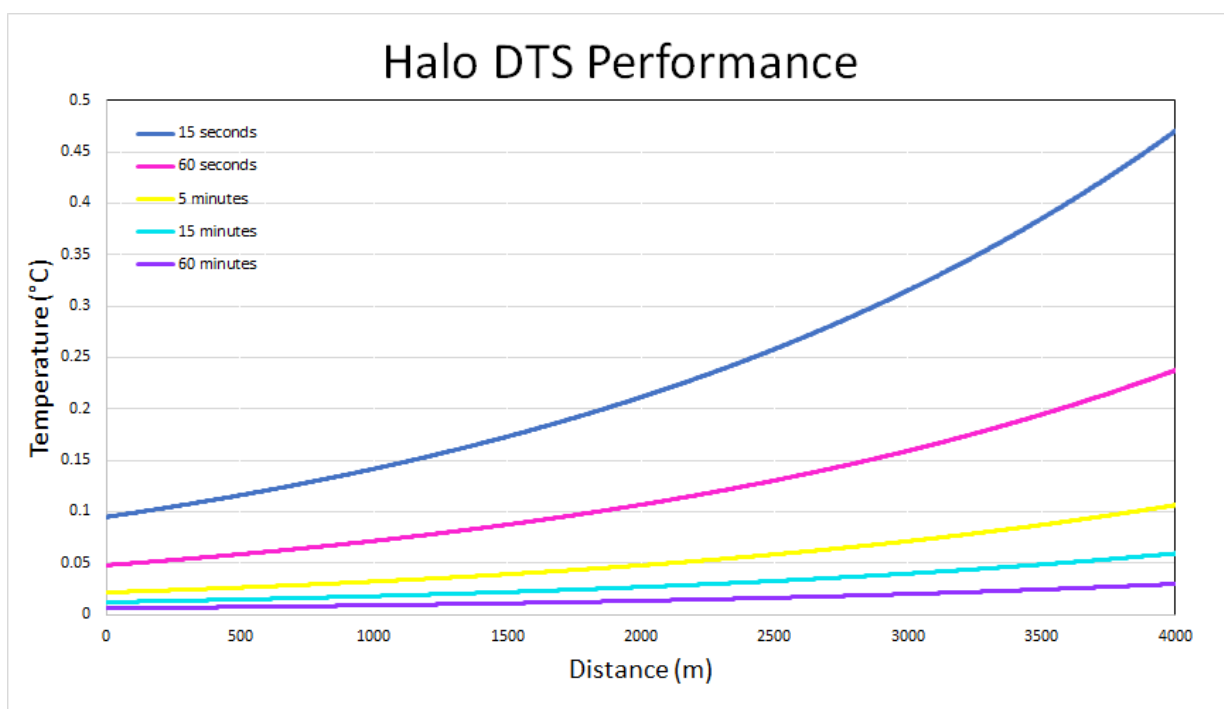
# PRODUCT CAPABILITIES

The Halo DTS offers the most advanced performance and reliable monitoring solution available today.

With Sensornet DTS systems (as with all DTS systems) there is a trade off between temperature resolution, spatial resolution, range and speed of measurement (eg. the more time you allow the DTS to acquire 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 with the system. The following graph illustrates the temperature resolution achieved for the Halo DTS. The graph shows the measurement times of 15 seconds, 1 minute, 5 minutes, 15 minutes and 60 minutes.



## Halo DTS

### Communication options available

The Halo DTS has various communication options available:

- Ethernet
- Volt free relay contacts
- OPC
- Modbus
- RS-232

Data storage is onboard. The user is able to copy data to external USB drive. Please contact a Sensornet representative for more information.

## BE SURE WITH SENSORNET

Sensornet offers the widest range of DTS to meet your every monitoring requirement, specific to any need, environment and challenge.

You can rely on us to provide the full solution - from system engineering and design, to installation, data interpretation services and global support services. We'll take the time to fully understand your business goals and the unique context and physical circumstances of your asset to provide the best solution to you.

Visit <https://www.sensornet.co.uk/terms/> for our full Terms & Conditions

document ref: Halo DTS datasheet v3 2020