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

<table>
<thead>
<tr>
<th>RANGE</th>
<th>CHANNELS</th>
<th>TEMPERATURE RESOLUTION</th>
<th>SAMPLING RESOLUTION</th>
<th>FIBRE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-4km</td>
<td>4</td>
<td>See reverse</td>
<td>2m</td>
<td>Multimode</td>
</tr>
</tbody>
</table>

### Operating environment

<table>
<thead>
<tr>
<th>OPERATING TEMPERATURE</th>
<th>STORAGE TEMPERATURE</th>
<th>HUMIDITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°C to +40°C</td>
<td>-15°C to +65°C</td>
<td>5% to 95% relative humidity, non-condensing</td>
</tr>
</tbody>
</table>

### Power requirements

<table>
<thead>
<tr>
<th>AC POWER</th>
<th>DC POWER</th>
<th>POWER CONSUMPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>100V - 240V, 50Hz - 60Hz</td>
<td>24V or 48V supply option available</td>
<td>40W - 50W maximum</td>
</tr>
</tbody>
</table>

### 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 61000-4-1:1995;
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

**CE MARK**
Accordance with 89/336 EEC EMC Directive
Accordance with LVD 72/23 EEC Directive:
EN 41003; EN 50178; EN 60065; EN 61010-1

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

### Physical dimensions*

<table>
<thead>
<tr>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>87mm (3.4 inches)</td>
<td>435mm (17.1 inches)</td>
<td>445mm (17.3 inches)</td>
<td>9kg (22lb)</td>
</tr>
</tbody>
</table>

*Fits in standard 19 inch rack mounting.

All details are subject to change.
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 Performance Graph](image)

**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

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