

A POWERFUL REMOTE LOGGING DTS UNIT

The Oryx DTS offers the most advanced and reliable solution for monitoring harsh and remote environments.

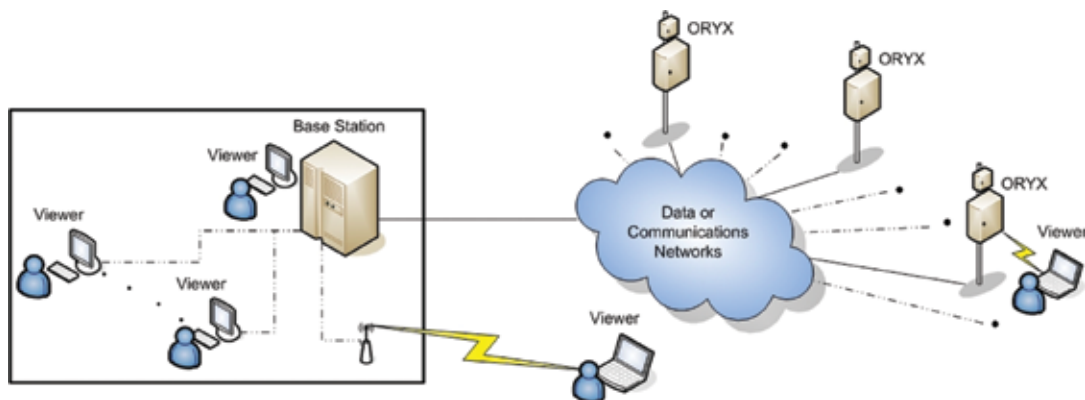
The Oryx DTS is a compact Distributed Temperature Sensing (DTS) system designed for harsh environments ideal for monitoring applications from desert to sub-zero conditions. The Oryx units are industry leading with temperature resolution as fine as 0.01°C.

The Oryx is an autonomous, low powered device allowing the system to be powered by solar or wind power. Combined with satellite, radio link, or fibre communications the Oryx becomes a powerful remote logging DTS unit.



1 Oryx DTS
2 Oryx inside enclosure
3 Oryx with ruggedised laptop

Features	Benefits
<ul style="list-style-type: none"> • High performance • Remote operation • Server based data collector and processor 	<p>Industry leading temperature resolution as fine as 0.01°C enables accurate data collection</p> <p>Designed for outdoor installation from desert to sub-zero conditions.</p> <p>Cost effective as there is no need to be at DTS site for set-up, configuration, updates, or data access.</p>
<ul style="list-style-type: none"> • Non-volatile on-board memory 	<p>Simple and intuitive user interface provides base-station set-up, communications options for multiple Oryx installations and data visualisation. Proven industrial standard software ensures reliable and continuous operation.</p>
<ul style="list-style-type: none"> • Low power requirements (12-24V DC) • Optional housing enclosure (IP66 (NEMA 4) or higher) 	<p>Ensures high quantity of measurements can be taken. Ideal for “drive-by” collection of data where a communications system would be cost prohibitive. Data stored on-board in event of communications/power failure.</p> <p>Enables solar panel / wind power operation. Cost effective performance.</p> <p>Weather and dust proof for cost effective deployment.</p>



Oryx system setup

ORYX DTS – DATA SHEET

Summary of sensing capabilities

Model	Range	Channels	Temperature resolution	Sampling resolution	Spatial resolution	Operating temperature
SR	0-5 km	4	See below	0.5m	1m	-40°C to +65°C
XR	0-15 km	4	See below	0.5m	1m	-5°C to +65°C

Power requirements

Model	Power supply	Power consumption
SR	12 or 24V DC	5 W stand-by; 30 W operating
XR	12 or 24V DC	5 W stand-by; 30 W operating

Communication options

The Oryx DTS is compatible with a wide range of communications options:

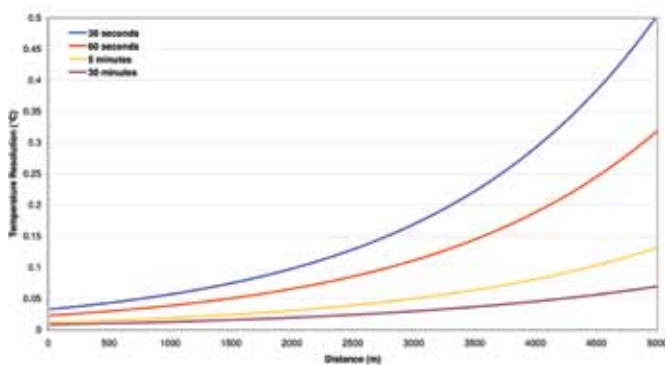
- Satellite / Wireless modem
- GSM Modem
- Radio Link
- Direct link to PCs/Laptops
- Serial RS-232
- Wired Ethernet

Certification and compliance

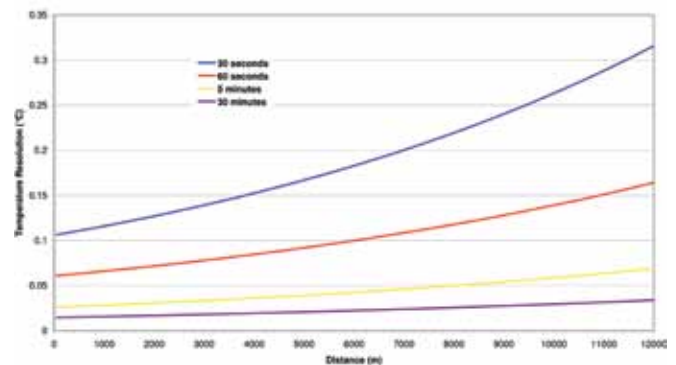
Classified to EN 60825-1 (2007) as a Class 1M laser product. CE compliant.

- BS EN61010-1:2001
- BS EN61326-1:2006
- BS EN55022:1998
- BS EN61000-4-3:2006
- FCC CFR47 pt15 (USA)
- ICES-003 (Canada)

Performance



Oryx SR DTS Performance



Oryx+ XR30 DTS Performance

Indicative performance data taken at room temperature. Specifications subject to change.

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.