

SIL-2 Rated DTS Leak Detection System

The Site Integrity Leak Detection System is the only SIL 2 rated distributed temperature sensing solution.

The SIL Leak Detection System is a fully integrated solution that delivers market leading performance. With Sentinel™ at its core it provides the longest range from a single channel, up to 45km, the fastest measurement speeds and achieving temperature resolution of 0.1°C in field applications.

The patented ATTS, (Automated Trip Testing System), monitors the performance achieving SIL 2 availability. Full alarm capability and allows easy connection to main distributed control systems. Site Integrity Leak Detection Systems are used in safety critical applications.

Rack mounted solution in fully configurable cabinet compatible with all control room environments, 42U.



Typical Performance

MODEL	CHANNELS *	TEMPERATURE RESOLUTION	SPATIAL RESOLUTION	SAMPLING RESOLUTION
SIL DTS-XR 12km (MM Fibre)	1	Down to 0.1°C	Down to 1 m	0.5 m
SIL DTS-XR 20km (MM Fibre)	1	Down to 0.1°C	Down to 1 m	1 m
SIL DTS-XR 30km (MM Fibre)	1	Down to 0.1°C	Down to 1 m	1 m
SIL DTS-XXR 45km (MM Fibre)	1	Down to 0.7°C	Down to 5 m	2 m

* Multiple channels: 4, 8 and 16 channel multiplexer modules available to increase system flexibility

Operating Environment

OPERATING TEMPERATURE
+5°C to +40°C

STORAGE TEMPERATURE
-15°C to +65°C

HUMIDITY
5% to 95%
relative humidity,
non-condensing

Power Requirements

AC POWER
100V - 240V
50Hz - 60Hz

POWER CONSUMPTION
900W maximum

Communication Options

Alarms Functionality: User configurable zones and alarms available to tie in to SCADA. MODBUS/OPC/WITSML data formats.

Relay contact module also available (Optional Items).

Certification & Compliance

SIL 2
ATEX

CE
WEEE

Physical dimensions*

HEIGHT
213cm

WIDTH
82cm

DEPTH
84cm

WEIGHT
310kg

* Standard cabinet

All details are subject to change.

BE SURE WITH SENSORNET

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



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assets