

XT-DTS™

Silixa's ruggedised distributed temperature sensor, XT-DTS™, is the highest performing DTS for remote and hostile environments currently on the market.



The XT-DTS has superior accuracy and reliability with a class-leading operating temperature range and low power consumption enabling operation with solar or wind power. It can be configured and controlled off-site via a wireless or satellite link enabling remote data collection and allowing for effective asset optimisation and environmental risk management, even in previously unreachable locations. The system can be configured to produce both single-ended and double-ended measurements.

Sensing Capabilities

Unit	Range	Channels	Resolution		Measurement Time	Fibre Type	External Reference
			Sampling	Temperature			
XT-DTS M	Up to 10 km	4 or 8	25/50cm	0.01°C	≥5 sec	50/125µm multimode	2 x Pt-100 probes
XT-DTS L	Up to 35 km		50cm	0.03°C			

System

Operating system	Windows 10 IoT LTSC		
Network	2 x 1 Gb/s Ethernet		
Storage	Internal SSD (240 GB)		
Control and Data Monitoring	XT Viewer	XT Client	XT SDK

Operating Environment

Unit	XT-DTS M	XT-DTS L
Temperature	-40° to +65°C	-20° to +60°C
Humidity	10-85% Non-condensing	

Power Supply Requirements

Steady state power, measuring	XT-DTS M ≤ 43W	XT-DTS L ≤ 39W
Steady state power, measuring	11 W	
Steady state power, hibernating	2 mW	
Nominal voltage range	12 to 24 VDC	
Absolute min and max voltages	11 to 36 VDC	

Physical Dimensions

Height (feet to lid)	171 mm
Height (feet to handle)	212 mm
Width (brackets closed)	364 mm
Depth	472 mm
Weight	12 kg

Certification & Compliance

Safety	EMC	FCC	CE Mark
Class 1 Laser Product IEC 60825-1: 2014 EN 61010-1: 2010	EN 61326-1:2013	CFR 47:2008 Part 15 Sub Part B	2014/35/EC (safety) 2014/30/EC (EMC)