



ULTIMA™ DTS

DATASHEET



The ULTIMA DTS range is the world's highest performing family of Distributed Temperature Sensors. The ULTIMA offers the finest temperature resolution and spatial resolutions, from 0.01°C and 35cm, over a wide operating temperature range. It is a standalone unit with an on-board PC and a user-friendly software interface. The ULTIMA is available with either 4 or 8 optical channels. The units are optimised for spatial and temperature resolution for the following ranges: 5, 10, 20 and 35km. The system can be configured to produce both single-ended and double-ended measurements. Minimum measurement time is 1 second.

Product Specifications

Sensing Capabilities

Range	Channels	Fibre type	Resolution	
			Temperature	Sampling
0 - 5km*	4 / 8	50 / 125 MM	0.01°C	0.125m
0 - 10km	4 / 8	50 / 125 MM	0.01°C	0.25m
0 - 20km	4 / 8	50 / 125 MM	0.05°C	1m
0 - 35km	4 / 8	50 / 125 MM	0.05°C	1m

*The unit is also available with a 0-2km range with an optimised temperature resolution.

Power Supply Requirements

AC Power	Maximum Power
100-240V, 50-60Hz	145W

Communication Options

Ethernet	USB
Display port	Internal HD

Physical Dimensions [19in rack compatible]

Height	Width	Depth	Weight
6.97in / 177.1mm	18.30in / 464.8mm	18.40in / 467.4mm	16.9kg / 37.3lb

Certification & Compliance

Safety	EMC	FCC	CE Mark
Class 1 Laser Product • IEC 60825-1: Edition-2:2007 • CFR 21 Parts 1040.10 & 1040.11 • EN 61010-1:2010	• EN61326-1:2013	CFR 47:2008 Part 15 Sub Part B	• 2014/35/EU (safety) • 2014/30/EU (EMC)

Data Monitoring

ULTIMA DAQ
ULTIMA Viewer
Enhanced Viewer

Oil & Gas Downhole



Oil & Gas Subsea



Mining



Environment & Infrastructure



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