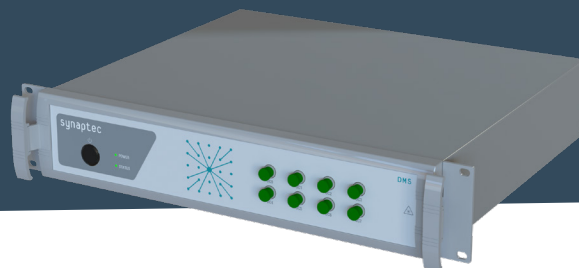


DMS Interrogator



The Distributed Mechanical Sensing (DMS) Interrogator is designed for monitoring of large numbers of point temperature sensors with unprecedented efficiency.

The DMS Interrogator allows up to 20 temperature sensors per channel to be multiplexed across up to 8 channels.

Specifications

Mechanical

Dimensions	19" 2U rack (483 x 400 x 88 mm)
Weight	7 kg

Power supply

Voltage	100-240 VAC
Frequency	50/60 Hz
Maximum power consumption	24 W

Environmental

Operating temperature	0 to +50 °C
Storage temperature	-20 to +70 °C
Humidity	to 90% at +40 °C
Shock endurance	Per IEC 60068-2-27
Sinusoidal vibration endurance	Per IEC 60068-2-6
EMC requirements	Per IEC 61326-1
IP rating	IP20

Measurement performance

Supported sensors	Passive Temperature Transducer (PTT)
Accuracy	±1 °C

Optical input

Number of optical channels	8
Representative number of PSC sensors per channel ¹	20
Fibre type	Standard simplex single-mode
Interface type	FC/APC

Communications interfaces and IO

Ethernet interface	RJ45
Protocol(s)	SCPI over TCP
Supported sampling rates	1 Hz

Time synchronisation

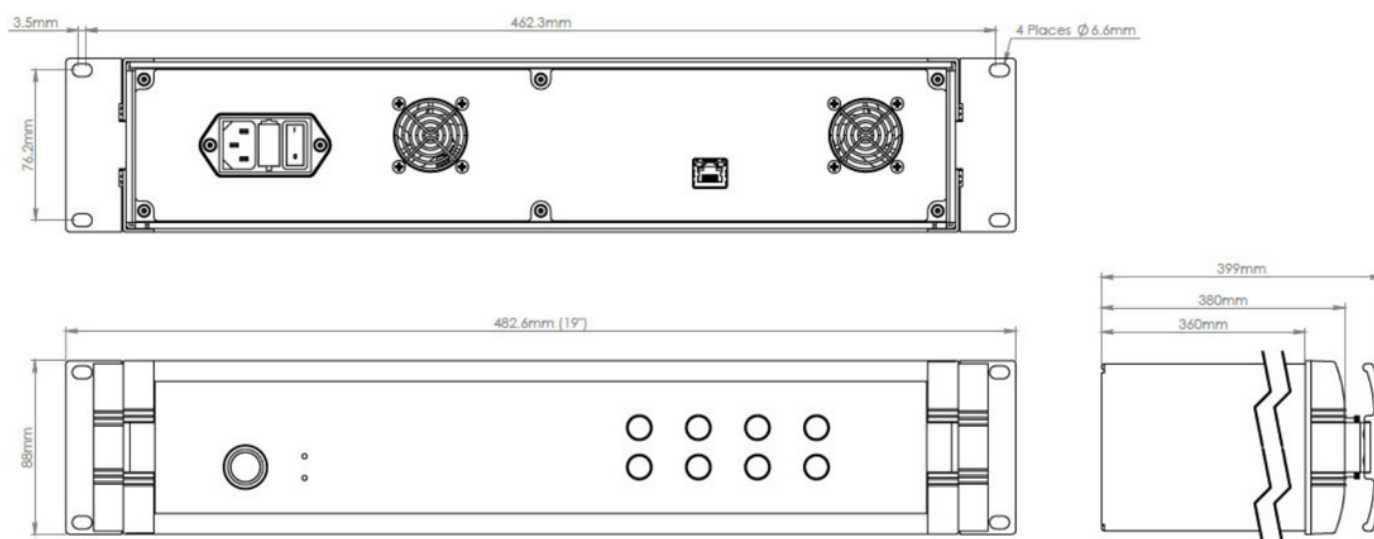
Protocol	NTP
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HMI

Software configuration and management	Automatic configuration via Synthesis®
Configuration port	RJ45 Ethernet
LEDs	Indicators for power (both modules) and status (interrogator module only)

¹Maximum number of sensors per channel is application-specific and will be optimised during solution design.

Product dimensions



Reference note

For installation instructions, laser safety information, end-of-life guidance, and additional technical details, please refer to the Product Manual.



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