montena

High performance
analogue signal
transmission over fibre

MOL25T
MOL500T
MOL2000T

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MODULAR OPTICAL LINK

Broadband fibre optic links for harsh electromagnetic environment

Fibre optic transmission system optimized for the measurement of fast transients or wide band signals from DC to 3.5 GHz.

MOL25T → DC to 25 MHz
MOL500T → DC to 500 MHz
MOL2000T → 80 Hz to 3.5 GHz

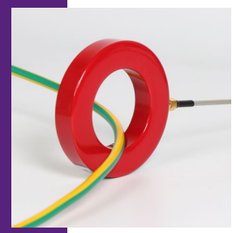
Very high immunity to electromagnetic field guarantees unaltered performance in all circumstances.
Remote controlled gain, attenuation and standby mode provide high deployment flexibility.

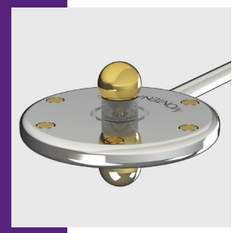
RECEIVER OPTIONS:

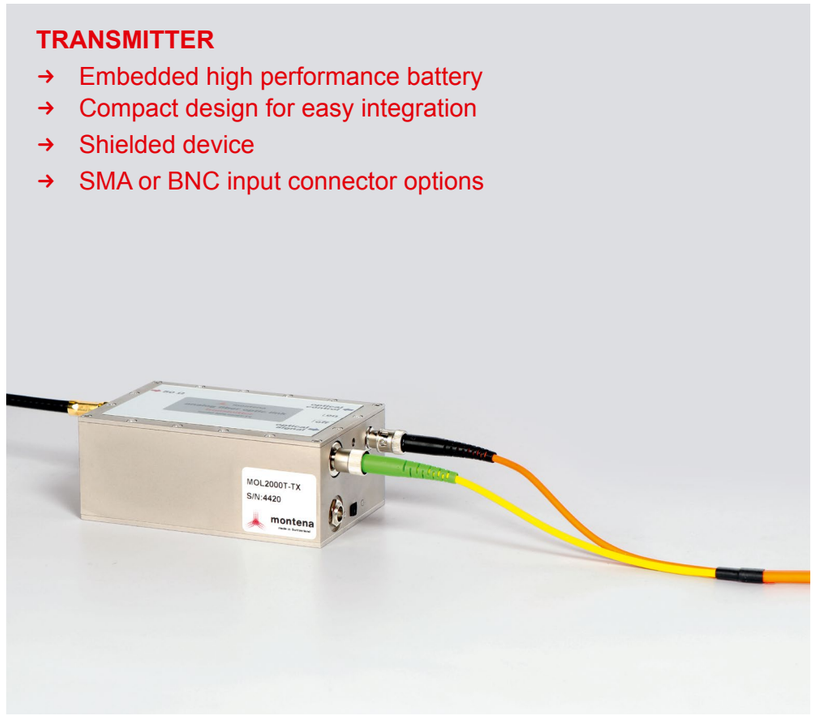
SHIELDED MODULE
- → Battery operated
- → Compact design

SINGLE SLOT CHASSIS
- → External DC power converter
- → For any plug-in module

MULTILINK ASSEMBLY
- → 19 inch 2HU
- → For up to 10 plug-in modules







TRANSMITTER
- → Embedded high performance battery
- → Compact design for easy integration
- → Shielded device
- → SMA or BNC input connector options

up to 1 km

APPLICATIONS

Realtime measurements in harsh environments such as high voltage substations, railway infrastructures, physics research centres.

Measurement of fast transients on high voltage floating potentials.

Fast impulses or RF signal transmission over long distances or hardly accessible areas.

HPEM / EMP / UWB testing.

FEATURES

All models of MOL (MOL25T, MOL500T, MOL2000T) are available in stand-alone and multilink versions. Built-in attenuators and preamplifier can be remotely configured for an optimized use of the input dynamic.

The modules comprise automatic regulation of optical losses and thermal compensation for high accuracy measurements.

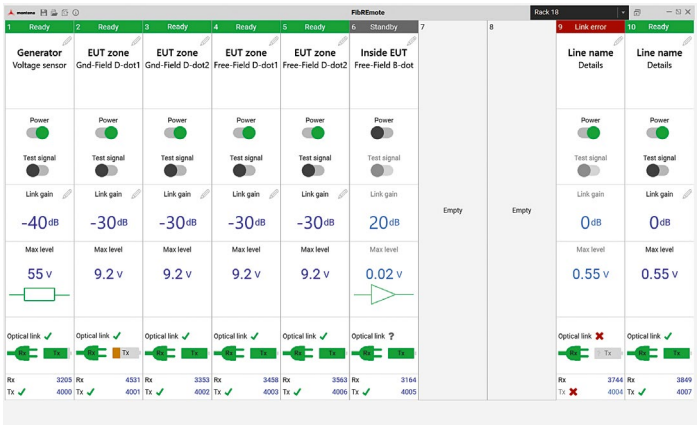
The optical signal and battery levels are monitored and status messages are reported to the user interface.

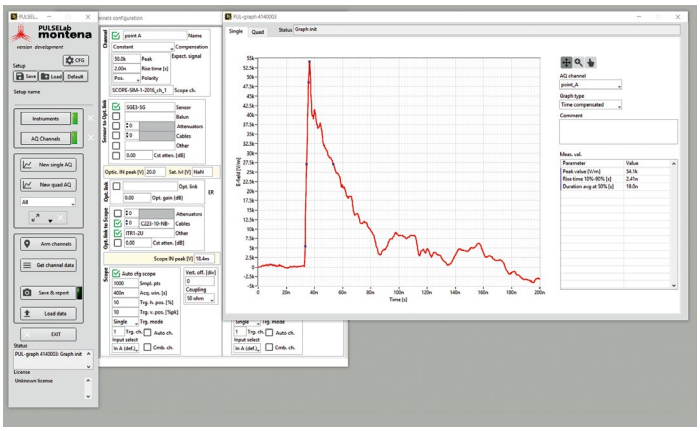
Different models of plug-in module can be mixed in one chassis.

	MOL25T	MOL500T	MOL2000T
Frequency range	DC - 25 MHz	DC - 500 MHz	80 Hz - 3.5 GHz
Channel(s) per module	2	1	1
Input impedance	1 MΩ	50 Ω or 1 MΩ selectable	50 Ω
System attenuations / gain (remotely selectable)	1:1 / 10:1 / 100:1	1:1 / 10:1 / 100:1	-62.5 dB to +24 dB
Signal processing	12-bit AD/DA converters	100% analog (electro-optic)	100% analog (electro-optic)

SOFTWARE APPLICATIONS

FibREmote Windows-based configuration tool. LabVIEW drivers and set of API commands available for 3rd party software applications.





PULSELab software application designed for pulsed waveforms acquisition and post-processing.

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