



## Optical Link 1.3 GHz – Single Version



TX



RX

The stand-alone system consists of: a shielded remote unit (transmitter), a receiver, a fibre optic cable and a charger.

The optical link is designed for the transmission of signals (CW and pulses) from 2 kHz to 1.3 GHz. The signal is conditioned and converted into an analogue optical signal in the transmitter module and is transmitted to the optical receiver through a fibre optic cable. The receiver module converts back the optical signal into an electrical signal. The transmitter module is powered with a rechargeable battery.

The modular optical link can be used for instance to monitor electric, magnetic field sensors and current probes. Acquisition and stimulus signals can be transmitted. See the specific datasheet about the field sensors.

### SPECIFICATIONS

<b>Bandwidth (- 3 dB)</b>	2 kHz to 1.3 GHz
<b>Flatness</b>	$\pm 1.5$ dB (< 100 kHz) / $\pm 1$ dB ( $\geq 100$ kHz)
<b>Risetime</b>	< 350 ps
<b>Simultaneous dynamic range</b>	150 dB in a 1 Hz bw
<b>Absolute maximum input</b>	+ 15 dBm / 5 V <sub>dc</sub>
<b>Input / output impedance</b>	50 $\Omega$
<b>VSWR</b>	< 2:1
<b>Operating temperature</b>	- 10 to 40 °C
<b>Electrical connector</b>	SMA
<b>Optical connector</b>	Single mode FC/APC
<b>Satellite size</b>	38 x 160 x 190 mm (H x W x D)
<b>Weight</b>	600 g
<b>Current consumption</b>	TX: < 250 mA RX: < 150 mA @ 12 V <sub>dc</sub>

### SYSTEM PARTS

MTX1300	TX shielded remote unit 2 kHz – 1.3 GHz, with battery pack
MRX1300	RX module 2 kHz – 1.3 GHz, with converter sleeve for stand alone use, with mains adapter
CML230T	Charger for the satellite battery pack
CML230R	Power supply for the receiver
FCLA50	Fibre cable 50 m

*A modular version with a mainframe is also available. See the specific data sheet.*