



Optical Link 3 GHz – Single Version



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

The optical link is designed for the transmission of signals (CW and pulses) from 500 kHz to 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 receiver can control the attenuator/amplifier settings and the built-in test generator for the calibration process. A RS232 port is available on the receiver module.

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

Bandwidth (- 3 dB)	500 kHz to 3 GHz
Flatness	± 4 dB
Risetime	< 150 ps
Inst. signal / noise	> 45 dB
Absolute maximum input	500 mV / 40 V _{dc}
Input / output impedance	50 Ω
VSWR	< 1.4:1
Operating temperature	10 to 40 °C
Battery operating duration	8 h
Electrical connectors	SMA
Optical connector	Single mode FC/ST
Remote unit size	150 x 80 x 70 mm

SYSTEM PARTS

OSA3000	TX remote unit 500 kHz – 3 GHz
ORE3000	RX plug-in module 500 kHz – 3 GHz
CM230H	Charger for the remote unit battery pack / power supply for the receiver
FCA50	Fibre cable 50 m (other length on request)

A modular version with mainframe is also available. See the specific data sheets.