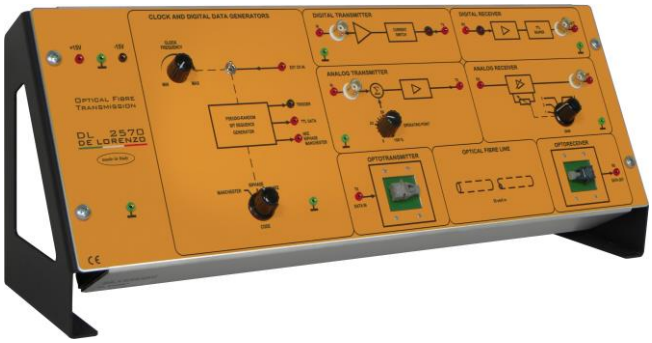
ELECTRONICS FOR TELECOMMUNICATIONS

Fiber optics



DL 2570

Examples of performable exercises

- architecture of fibre optics systems
- NRZ, BIPHASE, MANCHESTER coding
- optical transmitter and receiver
- transmission speed

The panel consists of a fiber optics transmission system that can be configured to experiment both digital and analogue signal transmission.

Technical features

The panel includes: a TTL input digital transmitter, a digital receiver with data regenerator, an analogue transmitter with continuous variation of the working point of the emitting diode, a variable gain analogue receiver, auxiliary devices (continuously variable frequency clock generator, bit pseudo-random sequence generator, with single pole / NRZ / Biphase / Manchester TTL line coding), internal test signal frequency: 100 ÷ 800 kHz, multi mode plastic fiber with fast connection terminals (two fibres are provided: 50 cm and 5 m long respectively), optical transmitter and receiver: 880 nm, 50 MHz.

Power supply: ± 15 Vdc, 300 mA.