

KIT FOR STUDYING FIBRE OPTICS

Mod. F-OFK/EV

DESCRIPTION

This kit is designed to study the behaviour of light in fibre optics, the applications in data transmission, examples of sensors used with fibre optics.

TRAINING PROGRAM

- Detecting signals via an analog receiver
- Tyndall's experiment
- Transmitting a signal via a function generator
- Transmission and amplification of sound, transformation of sound into electric signal, optical pulse, and their back conversion
- Examples of optical sensors (level sensor, force sensor, photogate sensor)
- Optical transmission between PCs (2 optional Personal Computers are required)

TECHNICAL SPECIFICATIONS

- Data transmission card including 5 V stabiliser and 9 V detachable plug
- Data reception card including 5 V stabiliser and 9 V detachable plug
- Analog transmitter / receiver
- Digital transmitter / receiver
- Transmitter with microphone
- Receiver with loudspeaker
- Low frequency generator (~ 1 kHz)
- RS232 converter with receiver and transmitter
- Set of three Ø 1 mm polymer optical fibres, different lengths
- 2 mm outside-diameter jacketed optical fibre 3 m long
- U-probe 1 m long
- Measuring device
- Force plates
- Bending cylinders
- Mechanical fibre holders, emeries, plastic tube, USB cables



SUPPLIED WITH
THEORETICAL - EXPERIMENTAL
HANDBOOK



OPTIONAL

- 2 PERSONAL COMPUTERS