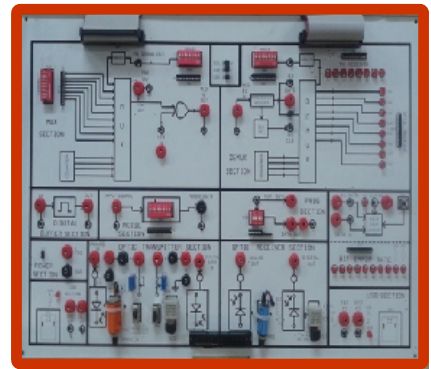


Advance Optical Fibre Trainer

Specification

- The fiber board has facility of 2 transmitters with 660 and 850 nm LEDs
- **On board 2 Receiver** with photo detector
- **Receiver 01** - Photo transistor with responsivity of $80\mu\text{A} / \mu\text{W}$
- **Receiver 02** - Photo detector with TTL logic output
- Facility for Manchester coding /decoding technique.
- Digital noise generator source output.
- 16 bit switch selectable PRBS generator
- On board Clock generator - 32 KHz, 64 KHz, 128 KHz
- Bit error rate measurement using 10-bit counter with LED indication up to 255 count
- Facility for 8 channels Time division multiplexing, (64 Kbits/Sec)
- One 8-bit user selectable markers in alternate frames for Frame marker
- The trainer has PC to PC communication data
- Baud rate – Maximum 115.2Kbps Baud
- Standard Fiber optic cable – 1.8 mm plastic optical cable
- Test Points to observe signals
- Interconnections - 2mm banana sockets
- On board power supply.
- The complete system will supplied with connecting leads, power chord, study and experimental user manual.



OPTICAL POWER METER

Specification

- Wavelength Range (nm) :- 850 ~ 1550
- Standard wavelength (nm) :- 850/ 980/ 1310/ 1490 / 1550
- Detector :- In GaAs
- Measurement range (dBm) :- -70 ~ +10
- Resolution (dB) :- 0.01
- Power supply :- 9V battery
- Working time (h) :- 130
- Operating temperature(°C) :- -10 ~ +50
- Storage temperature (°C) :- -20 ~ +70
- Automatic shutdown (min) :- 10
- Display :- LCD

Experiments

- Setting up a fiber optic analog link and digital link
- Measurement of bending losses in optic fiber
- Measurement of Numerical Aperture
- Characteristic Study of LED's and photo detectors
- Study of time division multiplexing using 8 data channels
- Study of marker in time division multiplexing
- Measurement of bit error rate
- PC to PC communication optical fiber link using RS-232 virtual com port
- Measurement of optical power.



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