

FIBER OPTIC TRAINER

EXPERIMENT 6 MEASUREMENT OF PROPAGATION LOSS USING OPTICAL POWER METER

Objective :

The objective of this experiment is to measure propagation loss in optical fiber using optical power meter.

Procedure :

1. Connect the power supply to the main board.
2. Keep the mode switch in emitter circuit in analog mode.
3. Connect the 1 meter fiber cable between the emitter LED & input to power meter as shown in diagram 10.
4. Switch on the instrument FOT1 (keep the wavelength switch in 660 nm, position).
5. Note the reading in power meter.
6. Replace the 1 meter fiber cable with the 5 meter cables without disturbing any setting. Again note the reading in power will be lesser then the previous one, indicating that the propagation loss increases with increase in length.

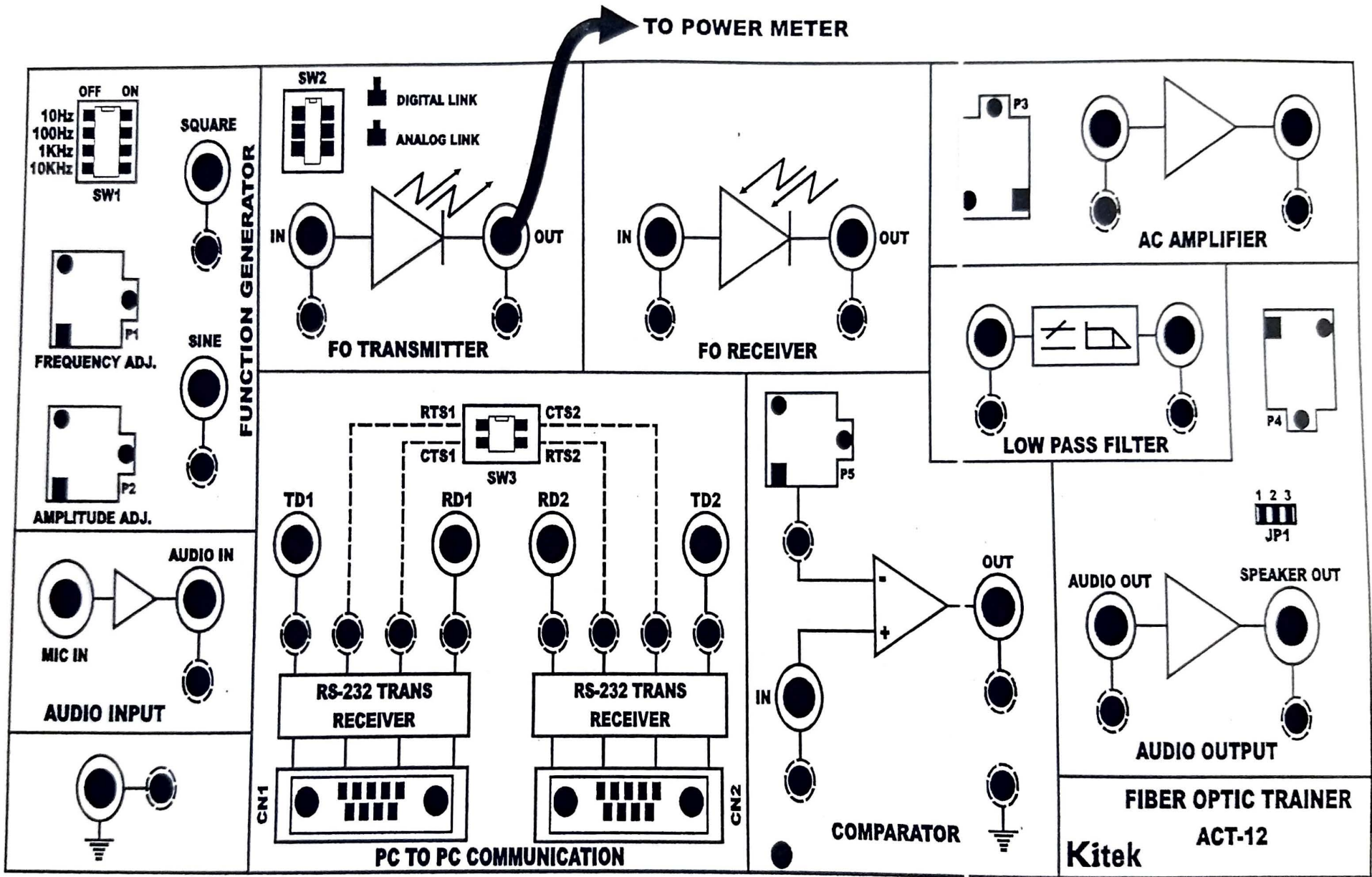


DIAGRAM-10

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ACT-12