

EXPERIMENT NO : 1

OBJECTIVE:- Study of CRO & Measurement of frequency using Lissajous Patterns.

APPARTUS REQUIRED:- CRO, Function Generator.

THEORY:

The cathode ray oscilloscope is the most versatile measuring instrument available. We can measure following parameters using the CRO:

1. AC or DC voltage.
2. Time ($t=1/f$).
3. Phase relationship
4. Waveform calculation. Rise time, fall time, on time, off-time Distortion, etc.

We can also measure non-electrical physical quantities like pressure, strain, temperature, acceleration, etc., by converting into electrical quantities using a transducer.

Major blocks:

1. Cathode ray tube (CRT)
2. Vertical amplifier
3. Horizontal amplifier
4. Sweep generator
5. Trigger circuit
6. Associated power supply.

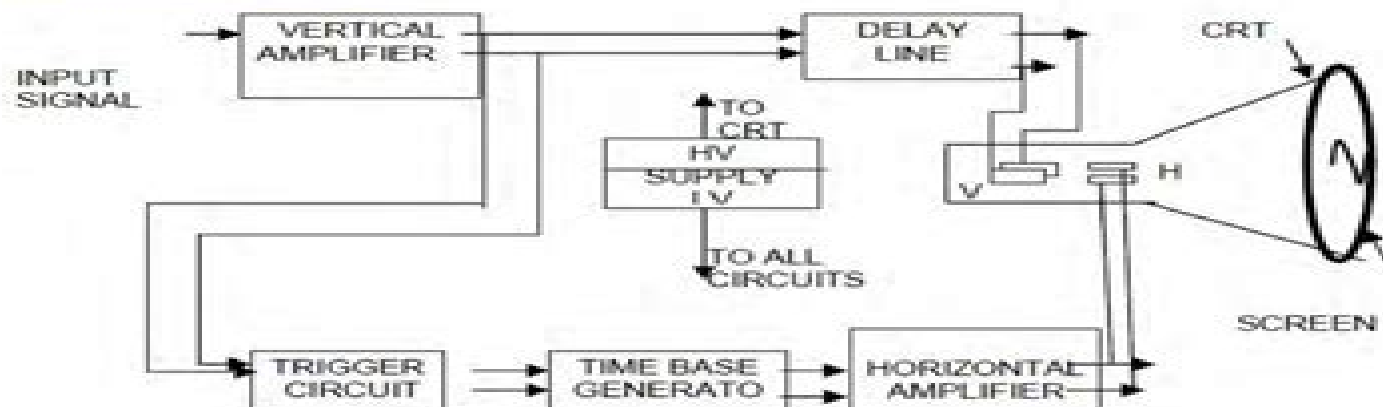


Figure A: BLOCK DIAGRAM OF CRO

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