

Measurement Systems

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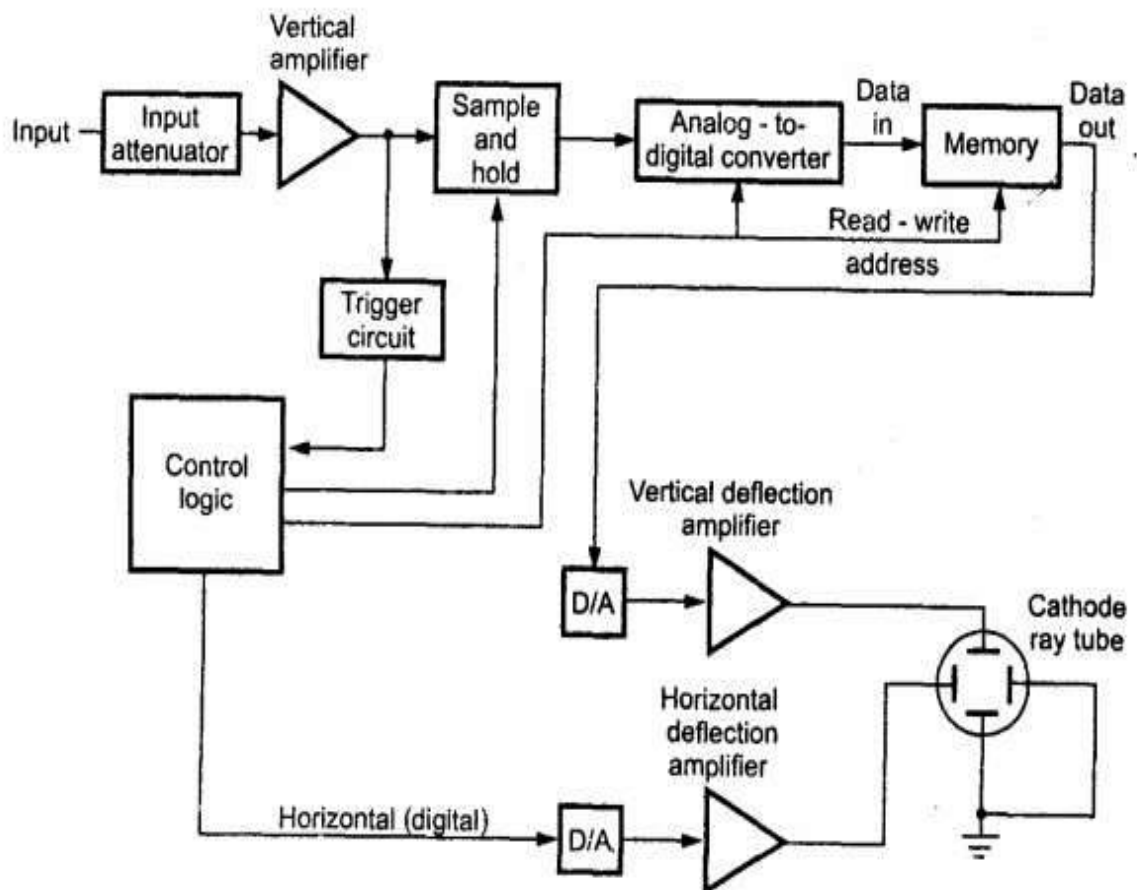
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LAB 3: Demonstration of operation of DSO.

- The **digital storage oscilloscope** is defined as the oscilloscope which **stores and analysis the signal digitally**, i.e. in the form of 1 or 0.



- ☐ To digitize the analog signal, analog to digital (A/D) converter is used.
- ☐ The output of the vertical amplifier is applied to the A/D converter section.
- ☐ The successive approximation type of A/D converter is most oftenly used in the digital storage oscilloscopes.
- ☐ The sampling rate and memory size are selected depending upon the duration & the waveform to be recorded.
- ☐ Once the input signal is sampled, the A/D converter digitizes it.
- ☐ The signal is then captured in the memory.
- ☐ Once it is stored in the memory, many manipulations are possible as memory can be readout without being erased.