## Digital Measurement of Time

The beginning of the time period is the stast pulse osiginating from saput 1 + end of the time period is the stop pulse from Input 2.

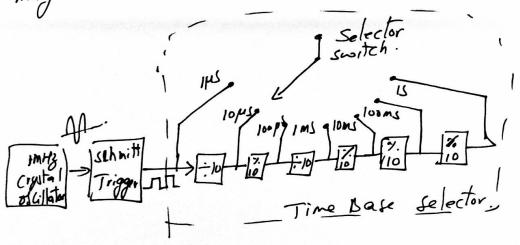
The oscillator suns lontinuously, but the osallator pulses seach the o/p only during the Period when the control F/F is in I state. The number of old pulses counted in a mousur of the time period.

Time Base selector

To know the value of frequency of the Input signal, the time interval between the start and stop of the gate must be accusately known . This

A dixed draguency crystal oscillator which is called time base. is vary according to the use of crystal is used. for the time base circuit. The output is fed to as. Schmitt Trigger, which works to the doput sine work to an olp Consisting of a Train of pulses at a texte sate equal to the frequency of the clock oscillator. The Train of pulses than passes through a series of. frequency divides decade amonthies tonnected in cas code. Each decade divides consists of a decade

bounted and divides the frequency by ten.
outputs are taken from each decade frequency
divided by means of a selector switch. Any ofp
may be selected.



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Measurement of Time (Period measurement)

In Gone cases it is necessary to measure the time period rakes than the frequency. Especially the time period rakes than the frequency in the Low frequency in the Low frequency. Is sange. To obtain good accuracy at low frequency. I sange. To obtain good accuracy at low frequency. We should take measurements of the period rather. We should take measurements of the period rather. Han make direct frequency measurements.

