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whether a product is simple or complex if it includes electronic components the design verification and debugging process requires an oscilloscope to analyze the numerous electrical signals that make the product come to life understanding oscilloscope basics is critical to almost all product design
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probes peter dalmaris in this article you will learn about the probe the device that allows you to connect a circuit to your oscilloscope so that you can take measurements we ll have a look at the types of probes that are available their most important specifications and how to use them

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important for the user to understand the underlying technology to get the most benefit out of his or her oscilloscope this primer provides an overview of the basic but most important building blocks of an oscilloscope as it relates to specifications limitations and impact on measurement accuracy note

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This tutorial aims to introduce the concepts, terminology, and control systems of oscilloscopes. It's broken down into the following sections:

- Basics of Oscilloscopes: An introduction to what exactly oscilloscopes are, what they measure, and why we use them.
- Oscilloscope Lexicon: A glossary covering some of the more common oscilloscope concepts.

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- Connect the probe to the input channel of the oscilloscope.
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- Interpret the waveform.

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An oscilloscope is informally scope, oscilloscope or O-scope. It's a diagnostic instrument that draws a graph of an electrical signal. View the complete lineup of Tektronix oscilloscopes. Oscilloscopes are versatile electronic instruments that are commonly used by engineers to perform waveform and signal analysis in electronic circuits.

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remove usb cable which connects oscilloscope and computer do not apply input voltages above the rating of the instrument because the probe tip voltage will directly transmit to the oscilloscope use with caution when the probe is set as 1 1 do not use exposed metal bnc or banana plug connectors

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sample acquisition intervals 2500 sample points sample mode acquires a single sample point in each interval tps2000b series digital oscilloscope user manual 91 reference the maximum sample rate is 1 gs s for oscilloscope models with a bandwidth of 100 mhz and 2 gs s for the 200 mhz model

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