

Kongres Container

How to measure the voltage of a communication base station



Overview

How are voltages measured?

Two common methods used for measuring voltages are Single-Ended and Differential measurement systems. Single-Ended voltage measurements have only one analog input channel making the measurement with respect to a common (ground) reference provided by either the device taking the measurement or by the external signal being measured.

How do I select a measurement range for voltage measurement?

You can select a measurement range for voltage measurement. If you're not sure how large the voltage you're measuring is, start with the highest range and progressively switch to lower ranges as necessary. If you're using a digital tester, many models can automatically select the range for you.

How do you measure a grounded signal source?

A grounded signal source is more accurately measured with a differential measurement so the additional ground is not included in the measurement. Isolated measurements are another way to break ground loops. This overview covered how to measure voltage within the limits of the test instrument, such as the range and resolution of an ADC.

Are voltage measurements relative?

Voltage measurements are relative, where one point must be compared to another point in the circuit. Ground (GND) is a reference point typically used as the base for all other voltage measurements within a circuit and can be 0V (not all voltage measurements are taken from this reference point, such as when measuring the voltage across a component).

When is voltage measurement useful?

This method is useful when the signal sources are low-level (less than 1V) where noise can be an issue or when the leads connecting the signal to the

device are long (more than 10ft or 3m). Voltage measurements are relative, where one point must be compared to another point in the circuit.

How do you measure power volts?

The amount of volts can be measured on circuit components, power supplies, sensors, and other electronic devices. The power voltage on a device or load can be measured across its power terminals. If the power supply is a battery, measuring its voltage can be used to determine how much charge is left in the battery.

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