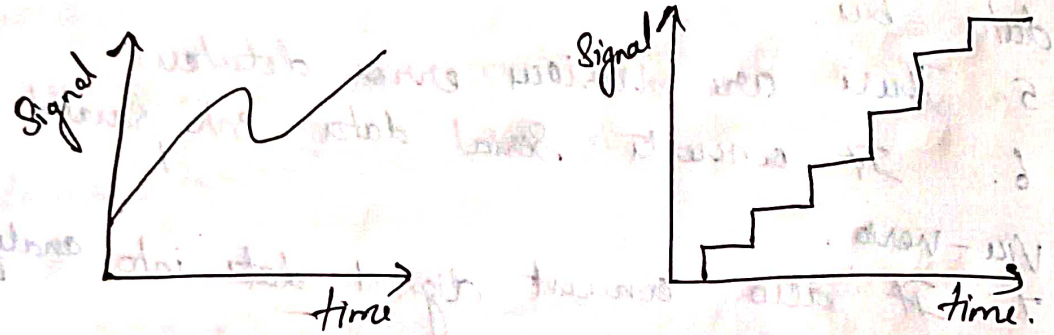
Analog and Discrete Signals.

Analog and digital signals are the types of signals carrying information. The major difference between both signals is that the analog signals have continuous electrical signals, while digital signal have non-continuous electrical signal.



Analog signals:

These signals are continuous in both value and time.

Discrete signal:

These signals are discrete in value and time.

Analog Signals

* Analog signals is continuous and time varying
* Troubleshooting of analog signals are difficult
* An analog signal is usually in the form of sine wave
* Easily affected by the noise
* uses continuous values to represent the data
* may be affected during data transmission
* use more power

Digital Signals

* Have two or more states signals in binary form.
* Troubleshooting of digital signals are easy.
* An digital signal is usually in form of square wave.
* These are stable and are prone to noise.
* Digital signals are discrete value to represent data.
* not affected during data transmission
* Digital signal use less power.

Information obtained from an analog signal:

1. Magnitude. (or amplitude)
2. Frequency
3. phase.

Key terms:

* Duty cycle
* Rise time.
* Fall time.
* Noise immu.
* Frequency content.
* Analog signal Modulation.