

PWM – Pulse Width Modulation Display

Pulse Width Modulation is a digital form of modulation in which an electrical voltage alternates between two values in a square pulse modulated at a constant frequency whose width varies. The relationship between pulse and pause is called the duty cycle. The frequency in all **in-system** products is 1500 Hz.

Duty cycle describes the proportion of "on" time in the control process, a low operating cycle corresponds to low power because the power is off most of the time. Operating cycle is expressed as a percentage, 100% is fully on. When a digital signal is on half the time and off the other half of the time, the digital signal has a 50% duty cycle and looks like a "square" wave.

See it illustrated in three scenarios here.

