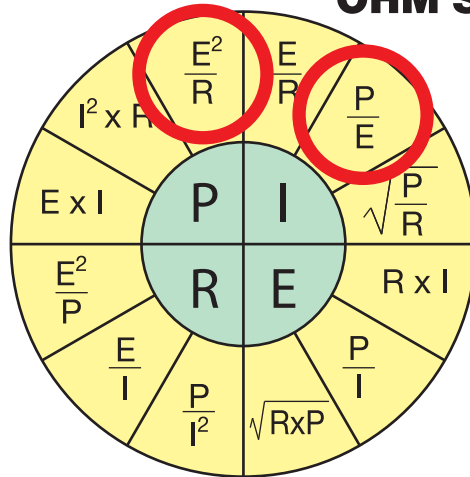


“How to use the OHM’s Law Wheel”

OHM’S LAW



E = Voltage
 I = Amperes
 R = Resistance
 P = Watts

Substitute the two known values in the yellow ring to obtain the unknown value in the green ring.

What is the Watts?

Watts is the unit used to describe the amount of power being used by a system, on the OHM’s Law Wheel this is denoted by the Letter “P” if you know two of the following you can calculate it:

- Voltage
- Amperes
- Resistance

Example 1

E = 120 volts
R = 10 ohms

$$P = \frac{E^2}{R} = \frac{120^2}{10} = 1440 \text{ watts}$$

P = 12 amps

Example 2

E = 120 volts
P = 100 watts

$$I = \frac{P}{E} = \frac{1440}{120} = 12 \text{ amps}$$

I = 12 amps

