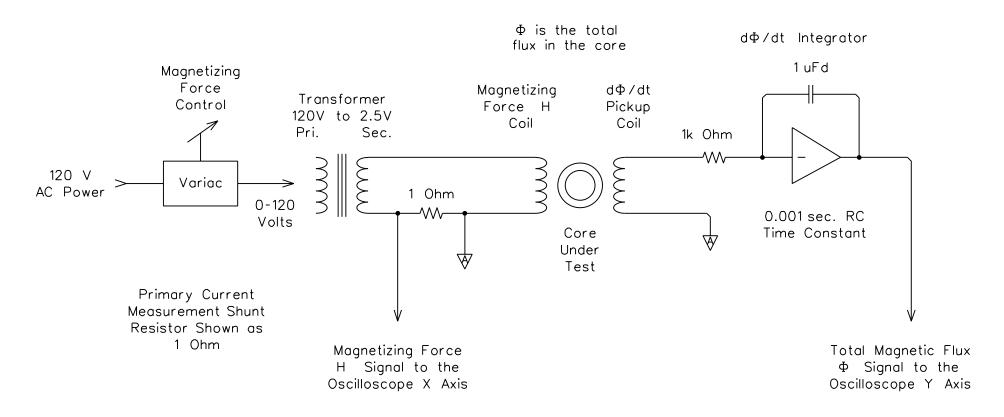
<u>Bvs H Curve Tracer Overall Layout</u>



Summary of the H, B, and Permeability Calculation All Done in the SI System

$$H = \frac{Amp\text{-Turns}}{\text{Effective Magnetic}}$$
Path Length

$$B = \frac{\text{Total Flux } \Phi}{\text{Effective Magnetic}}$$

$$Cross Section$$

$$\mu_r = \frac{B}{H \times \mu_0}$$

$$B = \frac{Volts \ Y \ axis \ x \ Integrator \ RC}{Turns \ Seconday \ x \ Cross \ Section}$$

$$\mu_r = \frac{B}{H \times 4\pi \text{ 10E-7}}$$

H is in Amp-Turns per meter

B is in Webers per square meter = Tesla

Drw: H-B *2 Rev. 10-Dec-2021