



** The TOP transformer (T1) is a Control Transformer with dual primary(240V) windings or a 480V primary with a Center Tap. The primary is is connected to 480 VAC power on 2 of the three phases. A 50 VA size is plenty of capacity.

** The Bottom transformer (T2) is a 480 VAC primary with a 24 VAC secondary connected from the third phase to the center tap of the Top transformer (T1). The secondary is divided down to 2.2 VAC by the resistors and the potentiometer. The P-Series accepts 0 - 1.9 VAC from the Range Finder Toroid which will be simulated with this 0 - 2.2 VAC. A 10 turn potentiometer will give good resolution when simulating a load.

Note:

The phase to reference voltage on the Bottom transformer (T2) primary will be $480 / 1.732 = 277V$. The secondary voltage using a 480V primary transformer will be $277 / 480 \times 24 = 13.9 VAC$. The 1K potentiometer will adjust 0 to 2.2 VAC to the P-Series. Full Scale input is 1.9 VAC.