

Load-Trainer™ II Transformer Simulator

Software Upgrade 1.3

XFMR-SOFTWARE-UPDATE

We are pleased to announce a software update is available for XFMR-001 units sold prior to June 30, 2020. We have incorporated several improvements based on our continued development as well as valuable feedback from our many customers.

Single Bushing Primary Transformer Option

Each Transformer (T1, T2, T3) can now be configured as a Single Bushing Primary. This setting connects the H2 bushing to the Tank Ground internally; therefore, no longer requiring an extra connection between H2 and Neutral. The setting is reflected on the Home page as P:1 (Primary = 1) or P:2 (Primary = 2) and can be found under each Transformer Options page.

Transformer 1 Options		
Pri. Bushings	Sec. Bushings	Polarity
1 Bushing	3 Bushing ✓	Additive ✓
2 Bushing ✓	4 Bushing	Subtractive
Source Fault:		Line Fault:
No Fault ✓		No Fault ✓
Fault		Fault
Close Window		

Additional Voltages

The Load-Trainer™ now includes 6 secondary voltages. We have added 347/600 WYE, 2400/4160 WYE, and 600 Delta. Similar to the 277/480 WYE bank all three new voltages use only the two outside secondary coils of the tank. These features are configured under the Voltage Options page and apply to all three Transformers. The current voltage setting will be displayed on the Home Screen.

A Phase	B Phase	C Phase	Wye/Delta	
On ✓	On ✓	On ✓	WYE ✓	Close Window
Off	Off	Off	DELTA	
A Line Phase				Voltages
A ✓	A	A	120/240 ✓	347/600 WYE
B	B ✓	B	240/480	2400/4160 WYE
C	C	C ✓	277/480 WYE	600 Delta

Additional Troubleshooting Modes

We have given more control to trainers by allowing additional information to be hidden in order to improve training and student evaluations. Transformer details like the number of primary and secondary bushings as well as polarity can now be hidden (Figure 1). When the output voltages are hidden a user can use the built-in Meter Inputs to measure Phase to Phase and Phase to Neutral voltages (Figure 2). The phase and transformer current meters along the top are independent of each other and can now be hidden (Figure 3). These features are controlled under the Trainer Options page.

Trainer Options Page			
Information to Display:	Output Voltages	Phase Currents	Transformer Currents
Transformer Details	Off	Off	Off
On ✓	On ✓	On ✓	On ✓
Close Window			

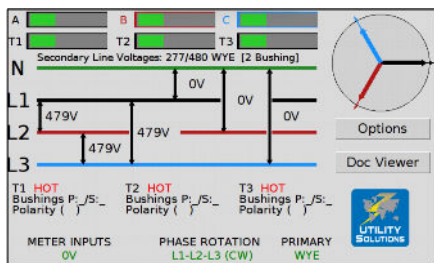


Figure 1

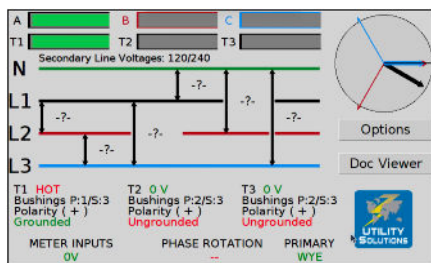


Figure 2

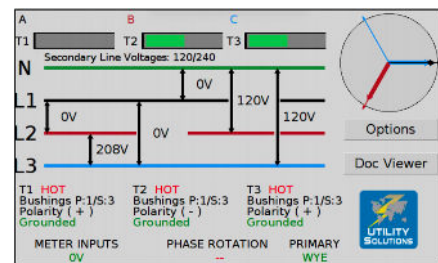


Figure 3

These updates will increase the flexibility of how the Load-Trainer™ II Transformer Simulator can be used and further increase the benefits for schools and training programs.