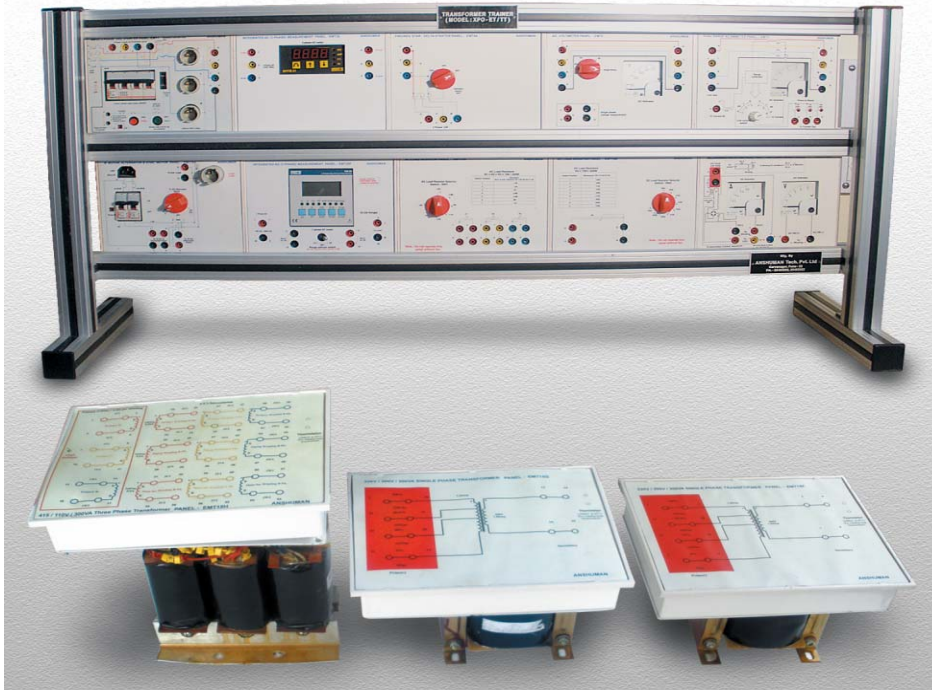


TRANSFORMER TRAINER (Model : XPO-TT)



SALIENT FEATURES

- ◆ Each of following standalone Electrical trainers may need a set of associated panels which are mounted in a light weight sturdy aluminium flat demo panel system.
- ◆ Facilitates easy and safe wiring by students due to 4mm sturdy shrouded banana patch cords and shrouded socket arrangement for high voltage circuits.
- ◆ Each panel has ABS molded plastic sturdy enclosure, and colorful screwless overlays showing circuit diagram & its connection tag numbers for easy understanding and connections.
- ◆ Set of Instructor Guide & Student Workbook.

1] 1 Phase & 3 Phase transformer trainer (Model TT) :

Sr. No.	Technical Specs	Model I (Default)	Model II (MOQ Restriction)
1.	VA rating	300VA	1 KVA/3 KVA
2.	X'mer Type	1 phase (2 Nos.)	1 phase (3 Nos.)
3.	Construction	Iron core strip lamination type step down Delta primary	Double wound iron core EI step down Transformer / Star secondary design.
4.	Primary	3 Nos. Isolated primaries 0-415 /0.24 A at 50Hz brought out on 3 x 3 sockets	230Vac / 4.5A, 50Hz brought out on 2x2 sockets x 3 primaries
5.	Secondary	3 Nos. Isolated windings groups main 110V/0.5A, zigzag 110V/0.5A, Tertiary 220 V / 0.25 A brought out	3 Nos. Isolated primaries 0-415 /2.5 A at 50Hz brought out on 3 x 3 sockets
6.	List of Panels :	Input 3 phase DOL starter panel (EMT1), Digital multifunction measurement panel 3 phase (EMT 20), Digital multifunction measurement panel 1 phase (EMT 20F), FWD - OFF-Rev switch panel (EMT4A), Single phase input MCB panel (EMT 16A), Secondary side AC Voltmeter Panel (EMT2), Dual range Secondary side AC ammeter panel (EMT3), Milliohmmeter (V-I method) (EMT6C), Resistive load panel (EMT14A/B).	Input 3 phase DOL starter panel (EMT1A), AC secondary voltmeter Panel (EMT2), AC primary voltmeter Panel (EMT2A), Dual range primary side AC ammeter panel (EMT3A), Dual range secondary side AC ammeter panel (EMT3B), FWD - OFF-Rev switch panel (EMT4A), Milliohmmeter (V-I method) (EMT6C), Resistive load panel (EMT20A/B/C), Dimmer panel (EMT20D-3 Nos), 3 pole ON/OFF panel (EMT20E), 230 V / 1 ph. Transformer panel (EMT15C), 415V/ 3 ph. Transformer primary panel (EMT15D), 415V/ 3 ph. Transformer secondary panel (EMT15E), 1 phase MCB Isolator panel (EMT16A)
7.	Rack / panel	5 x 2 / 9 Nos.	5 x 2 / 10 Nos.
8.	Mechanical Dimensions/Wt.	1170 (L) x 300 (W) x 545 (H) mm 33 Kg.	1170 (L) x 300 (W) x 545 (H) mm 70 Kg.
9.	Optional Accessories :	a) Wattmeter 2.5 / 5 Amp. 50 / 100V -1, b) 3 Phase Dimmer 1 Amp-1 No., c) Additional EMT20F (Parelleling 1ph.)-1 No..	
10.	More than 25 Experiments	<ul style="list-style-type: none"> ● Finding Transformer equivalent circuit. ● Study of transformer regulation. ● Measurement of winding temperature. ● Effect of type of load on transformer output waveform. ● Three phase transformer connections. ● Scott connection : Using 2 Nos. of 1phase transformer 3ph. to 2ph. conversion. ● Parallel Operation on 1 Phase transformer. ● Effect of variety of three phase connections on regulation and current carrying capacity of transformers. ● Harmonic cancellation & shift in phasor diagram due to different connections, Working of Teaser transformer ● Back to back test (sumpner test) on two identical single phase transformers. (3rd X'mer not needed for 300VA, 1ph.). 	

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Specifications subject to change without notice