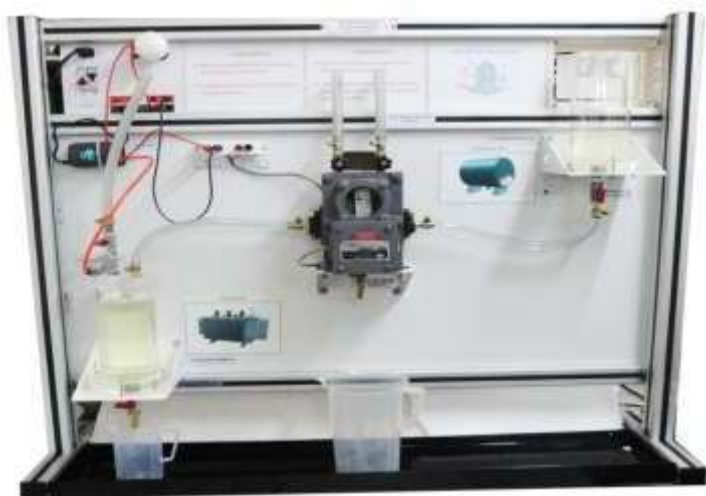


BUCHHOLZ RELAY TRAINER

(Model : TMS-PRT/ BUZ)



SALIENT FEATURES

- ◆ Conservator and transformer tanks are made of transparent acrylic for easy observation oil levels.
- ◆ Air pump and foot pump are provided to simulate gas formation & short circuit fault
- ◆ QRC socket provided to replace air pump by foot pump easily
- ◆ Transparent piping for easy to observation oil & air bubbles.

- ◆ Facilitates easy and safe wiring by students due to use of 4mm sturdy shrouded banana patch cords and socket arrangements.
- ◆ Aluminum profile sturdy flat modular demo panel (table top) system, carrying various high voltage components housed in plastic enclosures (panel) to minimise shock possibility.
- ◆ Set of Students workbook and Instructors Guide.

Technical Specifications :

◆ 1 Phase AC Input Supply Panel (EMT16A)

- 1 ph.dual MCBs of 2A for short circuit protection
- Lamp to indicate buchholz relay trip/fault

◆ Buchholz relay

- Gas/ Oil operated relay
- 2 Nos. of NO contacts (upper and lower mercury contacts) are brought out on SBS5 sockets on 'C' bracket.
- Weight: 10Kg

◆ Transformer tank

- Air tight acrylic tank to house transformer
- Capacity- 1.5 liters
- Tank mounted using MS 'L' plate

◆ Conservator tank

- Top open acrylic tank used to fill oil in to buchholz relay
- Capacity- 1.5 liters
- Tank mounted on MS 'L' plate

◆ Reservoir / sump tray

- MS black painted tray to collect oil overflow during experiment
- Size (mm): 1070 (L) x 300 (W) x 30 (H)
- 2mm thick MS sheet

◆ Piping

- Plastic reinforced 12mm(Ø) piping as air vent- 1M
- Plastic transparent 12mm (Ø) inter device piping- 1M

◆ Mechanical Dimensions (mm): 1165(L) x 300(W) x 900(H)

Net Weight: 35Kg, **Gross Weight:** 42Kg.

◆ Miscellaneous specification:

Items	Specification/function	Qty
Manual ball valves	SS ¼ inch (6mm)	1 no.
	SS ½ inch (12mm)	2 nos.
	SS ¾ inch (18mm)	1 no.
Non Return Valve (NRV)	Allows air in to X'mer container while oil is prevented from spilling into pump, line mounting (CI10T)	1 no.
Quick Release Coupler (QRC)	To substitute air pump by foot pump easily ¼ inch (6mm)	1 no.
6 x 4 PU tube	To connect air pump/ foot pump to transformer container	1.5 mtr
Foot pump	150 PSI	1 no.
Air pump	230Vac operated	1 no.
Oil mug	500ml plastic graduated	2 nos.
Nozzles	Brass ½ inch (5), Brass ¼ inch (2) Brass ½ inch by ¾ inch threading (2)	9 nos.
T coupler	SS, ½ inch inner threading	1 no.
Hose clips	½ inch	7 nos.

List of Experiments :

1. To perform experiment to operate buchholz relay to detect gas collected in the relay chamber.
2. To perform experiment to operate buchholz relay to detect low oil level inside relay.
3. To perform experiment to operate buchholz relay to detect surge of oil due to short circuit.