

KPR-18

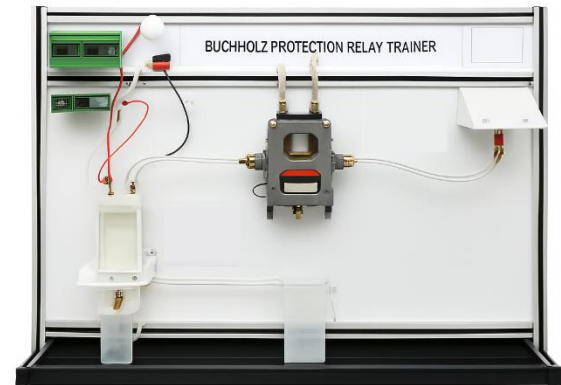
BUCHHOLZ PROTECTION RELAY TRAINER

MAKE : KITEK

Buchholz Protection Relay Trainer is an aesthetically designed stout training system mounted on Aluminium Profile rack with sturdy table top Panel. Each Panel has ABS molded plastic sturdy enclosure with 4mm shrouded connectors showing connection mimic diagram with tag numbers for easy understanding. Trainer helps in analyzing gas, low oil level and surge in oil due to short circuit in relay chamber

SPECIFICATION

- Machine trainer having control panel provided in 30X30mm Aluminum profile rack with 2 railing sturdy table top flat panel.
 - Electrical Control panels are provided in Slidable ABS plastic panel mounted on the aluminum rack with mimic diagram.
- Modular type flat panel carrying various high voltage components housed in ABS plastic enclosure to minimize shock possibility.
- Modular & Slidable panel for easy site servicing not close control
- Motor/Machine Provided with Earth socket for protection.
- All input & output are terminated in 4mm BS-10 shrouded connector, provided with 4mm shrouded cable for experiments.



ALUMINIUM PROFILE

STANDARD SUPPLY

- 3 Phase AC Power Supply Panel - MP1**
 - ~ 4Pole 415V/4A MCB C
 - ~ 9A Contactor with 230V / 50 Hz / 11VA COIL
 - ~ Bimetallic Class 10 thermal O/L relay with range 1.6A - 2.5A
 - ~ R-Y-B Input display Indicators.
 - ~ Manual start / stop with local trip contact
- 3 Phase AC Measurement Panel - MP3**
 - ~ Bidirectional Multifunction
 - ~ 3 Phase $\frac{3}{4}$ wire, 415V, CT Input 5A, Accuracy Class 1
 - ~ Alphanumeric LED/LCD display, Aux supply 230V AC/DC, 45-65 Hz, 5W
 - ~ V, I, Hz, Pf, KVA, KW, KWH, THD
 - ~ RS485 Communication Modbus RTU
- Current & Elapsed Timer Panel (2No's) - MP26**
 - ~ AC Ammeter 20 A
 - ~ Counter Range 999.001 Sec
 - ~ Resolution 1m Sec

TABLE TOP PANEL

- Panel Fittings 1 Transformer Tank**
 - ~ Air tight acrylic tank to house Transformer
 - ~ 1.5 liters Capacity
 - ~ MS 'L' plate Mounting
- Panel Fittings 2 Conservator Tank**
 - ~ Top open acrylic tank to fill oil in buchholz relay
 - ~ 1.5 liters Capacity
 - ~ MS 'L' plate Mounting
- Panel Fittings 3 Reservoir/Sump tray**
 - ~ Black painted tray to collect overflow oil
 - ~ Size (L x W X H) mm 1070 X 300 X 30
 - ~ 2mm MS Sheet
- Panel Fittings 4**
 - ~ Plastic reinforced 12 mm, 1 Meter Air vent piping
 - ~ Plastic Transparent 12 mm, 1 Meter Inter device piping
 - ~ Stainless Steel Manual ball valves
 - ~ $\frac{1}{4}$ inch (6mm)
 - ~ $\frac{1}{2}$ inch (12mm)
 - ~ $\frac{3}{4}$ inch (18mm)
 - ~ Non Return Valve (NRV) line mounting (CI10T), Allows air in to X'mer container while oil is prevented from spilling into pump,
 - ~ Quick Release Coupler (QRC) $\frac{1}{4}$ inch (6mm) to Substitute air pump by foot pump



- ~ 6 x 4 PU, 1.5 Meter Tube to connect air pump/ foot pump to transformer Tank
- ~ 150 PSI Foot pump
- ~ 230V AC operated Air pump
- ~ 500ml plastic graduated Oil mug
- ~ SS, ½ inch inner threading T coupler
- ~ ½ inch, 7 nos Hose clips
- ~ 9 No's of ½ inch (5), ¼ inch (2), ½ inch by ¾ inch threading (2) Brass Nozzles

- **Buchholz Relay Panel.**

- ~ Buchholz Relay Panel
- ~ Gas/Oil Operated Type
- ~ 2 NO Contacts (Upper & Lower mercury level)
- ~ 230V AC Auxiliary Supply

- **ACCESSORIES**

- ~ Set of 4mm Shrouded Cables required for experiments
- ~ Set of Manuals with Experiments.
- ~ Demo CD showing Experiments **(Optional)**

OPTIONAL SUPPLY

- **DAQ**

- ~ Windows based data Logging software to measure, monitor and datalog AC Multifunction Meter, DC Multifunction Meter, RPM, Torque simultaneously.

- **Working Table - KWT-01**

- ~ MS Work Table Size 1200x750x850 (L x W x H), with four castor wheels including two lockable wheels with Drawer size of L450mm x W500mm x H200mm.

- **EXPERIMENTs (Will depend on the list of Panels/Items Purchased)**

- ~ To operate buchholz relay to detect gas collected in the relay chamber.
- ~ To operate buchholz relay to detect low oil level inside relay chamber
- ~ To operate buchholz relay to detect surge of oil due to short circuit.

ORDERING INFO

Part No	1	2
KPR-18	0,1	0,1

SLOT	DESCRIPTION	OPTIONS		
1	DAQ	0-No	1-Yes	
2	Working Table	0-No	1-Yes	

