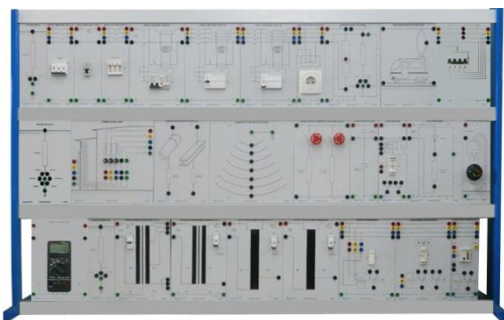


ELECTRICAL PROTECTION TRAINER

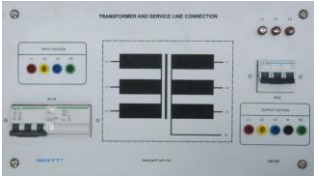
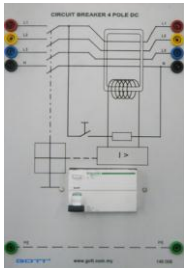
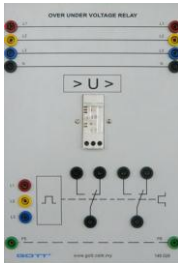

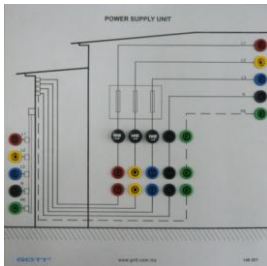
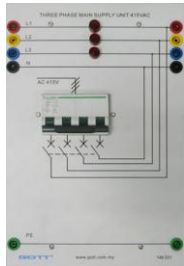


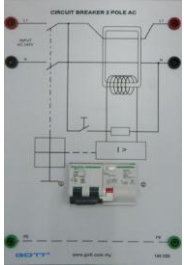
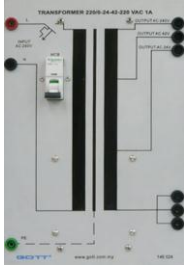


Model Number : GOTT-EPT-146



DESCRIPTION

This Electrical Protection Trainer have been created for learning of Dangers caused of touch of the electrical or electrical conductor equipment, Leakage current, Simulation of protection of leakage current by using FI circuit breaker, Prevention of "Fault" by using separation transformer. It's designed as panel system with 2 level mounting frame. There have clearly symbol on each panel by silk screen. All of connecting point via safety connector for safety in operation.

PRODUCT MODULES

TRANSFORMER AND SERVICE LINE CONNECTION	CODE 146-002	CIRCUIT BREAKER 4 POLE (AC/DC)	CODE 146-007	OVER UNDER VOLTAGE RELAY	CODE 146-029	OVER UNDER CURRENT RELAY	CODE 146-030
<p>Adjustable three phase transformer ratio : 240/240 VAC 0.2A 240/240VAC 5A Input voltage : 380/220Vac Output socket voltage : L1, L2, L3, N, PE Pilot lamp: L1, L2, L3 Protection: MCB 3P 10A 6kA</p> 		<p>Input voltage socket: L1, L2, L3, N, PE Output voltage socket: L1, L2, L3, N, PE Protection: ELCB 4P 25A iF 30mA (AC/DC)</p> 		<p>Operating voltage: 415VAC Supply variation: 0.75~1.25 x Un Upper trip: 1.05~1.25 x Un Lower trip: 0.75~0.95 x Un Time Delay: 0.2 ~10 sec.</p> 		<p>Operating voltage: 415/240VAC Supply variation: 85~115% of Un Time delay (t) (from fault): 0.1 to 3 sec. On delay (ton): 0.1 to 10 sec. Reset time: 200ms</p> 	
<p>Input voltage: 415/240 VAC Output voltage: 415/240 VAC Protection: Fuse 0.2A, 5A</p> 	CODE 146-001	<p>Input voltage: 3phase 415VAC Output voltage: 3 phase 415VAC Protection: 20A MCB Ampere Trip</p> 	CODE 146-031	<p>Input voltage socket: L1, L2, L3, N, PE Output voltage socket: L1, L2, L3, N, PE Protection: MCB 3P 10A 6kA</p> 	CODE 146-003	<p>Input voltage socket: L1, L2, L3, N, PE Output voltage socket: L1, L2, L3, N, PE Protection: Modular fuse 32A</p> 	CODE 146-005
<p>Input voltage socket: L, N, PE Output voltage socket: L, N, PE Protection: ELCB 2P 25A iF 30mA</p> 	CODE 146-006	<p>Input voltage : 240 VAC Output voltage : 240V, 42V , 24V 1A Protection : MCB 1P 0.5A 6kA</p> 	CODE 146-024	<p>Input voltage socket: L, N, PE Output voltage socket: L, N, PE Protection: MCB 1P 10A 6kA</p> 	CODE 146-004	<p>Input voltage socket: L1, L2, L3, N, PE Output voltage socket: L1, L2, L3, N, PE</p> 	CODE 146-010

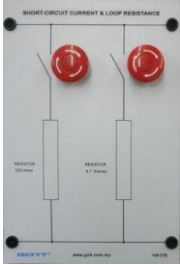
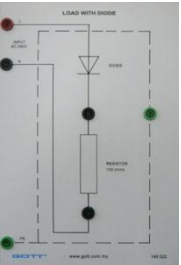






ELECTRICAL PROTECTION TRAINER

Model Number : GOTT-EPT-146

<p>INSULATION TESTER</p> <p>CODE 146-009</p>	<p>LOAD WITH FAULT TO FRAME</p> <p>CODE 146-011</p>	<p>SYSTEM EARTH</p> <p>CODE 146-013</p>	<p>CONTACT RESISTANCE</p> <p>CODE 146-015</p>	<p>LOAD EXTRA-LOW VOLTAGE 24 VAC</p> <p>CODE 146-012</p>	<p>PROTECTIVE EARTH</p> <p>CODE 146-014</p>	<p>CAPACITANCE SYSTEM</p> <p>CODE 146-019</p>	<p>INSULATION RESISTANCE</p> <p>CODE 146-020</p>
<p>Input voltage : 240 VAC Display: LED Test, Reset</p> 	<p>Input voltage socket: L, N, PE</p> 	<p>Earth resistance : 2Ω, 8Ω</p> 	<p>Earth resistance : 10Ω, 470Ω, 15kΩ</p> 	<p>Input voltage: 24VAC</p> 	<p>Earth resistance : 1.5Ω, 220Ω, 470Ω, 820Ω, 1322Ω, 5kΩ</p> 	<p>Capacitance : 0.1uF/450V, 0.01uF/630V</p> 	<p>Insulation resistance : 15kΩ, 47kΩ, 82kΩ, 220kΩ</p> 
<p>CONDUCTIVE PARTS WITH POTENTIAL</p> <p>CODE 146-016</p> <p>Conductive resistance : 1.5Ω, 10Ω</p> 	<p>COURSE OF THE EARTH VOLTAGE</p> <p>CODE 146-017</p> <p>Electric potential level : 1m., 2m., 3m., 5m., 7.5m., 10m., 20m.</p> 	<p>FLOOD DETECTOR</p> <p>CODE 146-021</p> <p>Level simulate: 2 Level Relay coil: 240 VAC</p> 	<p>LOAD FLOOR LAMP 240 VAC</p> <p>CODE 146-023</p> <p>Input voltage : 240 VAC Lamp type: Incandescent</p> 				
<p>ISOLATING TRANSFORMER 240/240 VAC 1A</p> <p>CODE 146-025</p> <p>Input voltage: 240 VAC Output voltage: 240VAC/ 1A Voltage Ratio: 1 : 1</p> 	<p>AUTO TRANSFORMER 0-42-240 VAC 1 A</p> <p>CODE 146-026</p> <p>Input voltage: 240 VAC Output voltage: 42 VAC 1A Protection: MCB 1P 0.5A 6kA</p> 	<p>EXTRA-LOW VOLTAGE TRANSFORMER</p> <p>CODE 146-027</p> <p>Input voltage: 240 VAC Output voltage: 24 VAC 1A Protection: MCB 1P 0.5A 6kA</p> 	<p>PHASE VOLTAGE RELAY</p> <p>CODE 146-028</p> <p>Operating voltage: 240 VAC Supply variation: 210~240 VAC</p> 				

ELECTRICAL PROTECTION TRAINER

Model Number : GOTT-EPT-146

SHORT-CIRCUIT CURRENT & LOOP RESISTANCE	CODE 146-018	LOAD WITH DIODE	CODE 146-022	AC VOLTMETER	CODE 162-011	AC AMMETER	CODE 162-012
Loop resistance : 220Ω, 4.7kΩ 		Resistance: 100Ω, (series with diode) 		Measurement Mode: AC Voltage Ranges: 5V, 50V, 250V, 1000V 		Measurement Mode: AC Current Ranges: 1A, 5A, 25A 	
U-LINK	CODE 159-019	SAFETY CONNECTING LEAD	CODE 237-001	VERTICAL FRAME	CODE 297-000	EXPERIMENT MANUAL	CODE 146-035
For connecting junction point 		4mm connecting leads 		High level : DIN standard A4 with two shelves Material: Aluminium Side Frame: T shape Size: 3-Layer 1450mm Length 			

EXPERIMENT TOPICS :

- Understanding the Function of Over/Under Voltage Relay
 - Under Voltage Protection
 - Over Voltage Protection
- Protection for Over and Under current Circumstances
 - Under Current Protection
 - Over Current Protection
- Protection from Unbalance Phase Situations
 - Wrong Phase Sequence Detection
 - Unbalance Voltage Detection
- The Usage of Two Level Liquid Detector Relay
- Insulation Testing for Electrical Safety
- Usage of Isolation Transformer to Prevent Electric Shock
- Protection from Pulsating DC Leakage Current
- Fault Current Protection by Using RCCB
- Course of Earth Voltage Due to Ground Rods

Manuals :

- (1) All manuals are written in English
- (2) Model Answer
- (3) Teaching Manuals

General Terms :

- (1) Accessories will be provided where applicable.
- (2) Manual & Training will be provided where applicable.
- (3) Design & specifications are subject to change without notice.
- (4) We reserve the right to discontinue the manufacturing of any product.

Warranty :

2 Years

ORDERING INFORMATION :

ITEM	MODEL NUMBER	CODE
ELECTRICAL PROTECTION TRAINER	GOTT-EPT-146	146-000

* Proposed design only, subject to changes without any notice.