



EDUCATIONAL
TECHNOLOGIES



AC Drive Trainer

ET-AD08-1A

Learning. Experimenting. Understanding!
Accurate. Reliable. Affordable



Other Trainers

PLC

Op Amp

AC Drive

DC Drive

Analogue Filter

Opto Electronics

Power Electronics

Electrical Machines

Industrial Electronics

Future Trainers

Radar

Antenna

Sensors

Servo Drive

Communication

Micro-controller

Manufactured By

www.ettrainers.com
+92-21-5387140 & 45

Salient Features

- Low cost
- Dual operational facility (Manual & Automated)
- PLC with analogue modules
- PC interfaced (Built in)
- Can also be used for
 - Machine experiments
 - PLC experiments
 - Control System

Experiments

More than 25 experiments covering full range of AC drive

- Parameter configuration
- Frequency & operation mode configuration
- Skip frequency, Jog frequency & Step operation
- Acceleration, deceleration time, braking resistor
- Internal PLC operation
- Interface with external PLC
- PID operation

Competitive edge

- Graphic measurement software includes
 - Trend analysis
 - Monitoring
 - Parameter configuration & comparison
 - Advance options
- Power point slides of each lab
- PC interfaced

Main Modules

- VFD
- PLC
- AC Motor 1hp 3 phase
- Electric Load
- Taco-Generator
- RPM Meter
- Volt & Current meters
- DC Source
- Logic switches

Accessories

- Students lab manual
- VFD manual
- GUI manual
- Key board & mouse
- Banana cables





DC Drive Trainer

ET-DD08-1A

Learning. Experimenting. Understanding!
Accurate. Reliable. Affordable



Other Trainers

PLC
Op Amp
AC Drive
DC Drive
Analogue Filter
Opto Electronics
Power Electronics
Electrical Machines
Industrial Electronics

Future Trainers

Radar
Antenna
Sensors
Servo Drive
Communication
Micro-controller

Manufactured By

www.ettrainers.com
+92-21-5387140 & 45

Salient Features

- Low cost
- Dual operational facility (Manual & Automated)
- PLC with analogue modules
- PC interfaced (Built in)
- Can also be used for
 - Machine experiments
 - PLC experiments
 - Control System

Experiments

More than 25 experiments covering full range of DC drive

- Parameter configuration
- Operation mode configuration
- Jog & Step operation
- Acceleration, deceleration time, braking resistor
- Internal PLC operation
- Interface with external PLC
- PID operation

Competitive edge

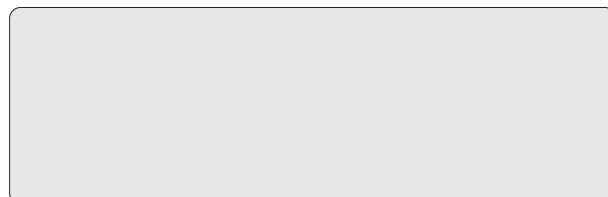
- Graphic measurement software includes
 - Trend analysis
 - Monitoring
 - Parameter configuration & comparison
 - Advance options
- Power point slides of each lab
- PC interfaced

Main Modules

- DC Drive
- PLC
- DC Motor 1hp
- Electric Load
- Taco-Generator
- RPM Meter
- Volt & Current meters
- DC Source
- Logic switches

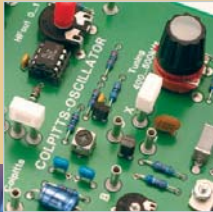
Accessories

- Students lab manual
- Trainer manual
- GUI manual
- Key board & mouse
- Banana cables





EDUCATIONAL
TECHNOLOGIES



Electrical Machines Trainer

LT-MT06-2A

Learning. Experimenting. Understanding!
Accurate. Reliable. Affordable



Other Trainers

PLC

Op Amp

AC Drive

DC Drive

Analogue Filter

Opto Electronics

Power Electronics

Electrical Machines

Industrial Electronics

Future Trainers

Radar

Antenna

Sensors

Servo Drive

Communication

Micro controller

Salient Features

- Low cost
- User friendly
- Optional PC interface
- Optional Software for measurements and analysis

Main Modules

- Control and measurement console
- AC and DC source 220V
- AC induction Motor
- DC shunt motor
- DC shunt generator
- Electric Load
- Transformers
- RPM Meter
- Volt & Current meters
- DC Source

Optional modules

- Alternator
- Synchronous machine
- Vibration analyzer
- PC measurement module
- Cut Way modals of machines
- EMSOft for measurements and graphical representation

Experiments

- Complete curriculum coverage for
- Transformers
 - DC Motors
 - DC Generators
 - AC Induction motors
 - Alternator
 - Synchronous motor

Experiments Includes

- No load test
- Full load test
- Regulation
- Efficiency
- Parameter measurements
- Characteristics curves

Accessories

- Students lab manual
- Trainer Manual
- Banana cables

Manufactured By



EDUCATIONAL
TECHNOLOGIES



Motor Control Trainer

ET-MCT08-1A

Learning. Experimenting. Understanding!
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Motor Control Trainer ET-MCT08-1A

Other Trainers

PLC

Op Amp

AC Drive

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Industrial Electronics

Future Trainers

Radar

Antenna

Sensors

Servo Drive

Communication

Micro-controller

Salient Features

- Low cost
- Designed for easy and comprehensive learning
- Built in circuits with top printed with schematics
- Built in power supply

Main Modules

- AC Power Source
- Meters
- AC Motor 3 Ph
-

Accessories

- Students lab manual
- Trainer manual
- Power cables
- Interconnecting cables

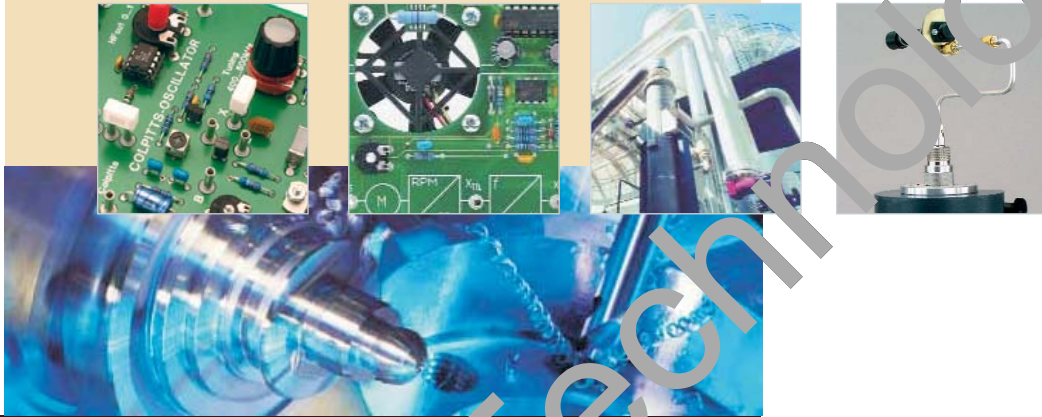
Experiments

- Single phase motor connection
- Single phase motor direction reversal
- Three phase star connection
- Three Phase delta connection
- DOL Starting
- Star Delta Starter
- Overload protection





EDUCATIONAL
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Transformer Trainer

ET-TR08-1A

Learning. Experimenting. Understanding!
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PLC

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DC Drive

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Power Electronics

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Radar

Antenna

Sensors

Servo Drive

Communication

Micro-controller

Manufactured By

www.ettrainers.com

+92-21-5387140 & 45

Salient Features

- Low cost
- Designed for easy and comprehensive learning
- Built in circuits with top printed with schematics
- Built in power supply

Main Modules

- Monitoring Unit
- Transformers 03
- Variable AC Supply

Accessories

- Students lab manual
- Trainer manual
- Power cables
- Interconnecting cables

Experiments

- Ratio Test
- Impedance Test
- No load test
- Full load test
- Losses measurement
- Efficiency test
- Regulation test
- Parallel operation

Measurements

- AC voltages 0-250V
- AC current 0-10A
- AC power 0-1KW
- Power factor 0-1

