

- Sensor/Interface Conversion

DAQ(DATA ACQUISITION) TRAINER

New
ED-4110

- Remote mode by PC and Local mode by manual operation on the panel
- Graphical display of diagrams on panel for AD/DA conversion procedures
- DSO embodiment by A/D Converter for collection and analysis of analog data on PC
- Storage of measured data and generation of 5 wave forms required for experiments through D/A Converter



> EXPERIMENTS

- **A/D Converter**
 - » Remote control experiment on PC
 - » Analysis and storage of waveforms through DSO in HMI
 - » Experiment manually on A/D Converter Chip based on the assigned datasheet
- **D/A Converter**
 - » Remote control experiment on PC
 - » Analysis and storage of waveforms through DSO in HMI
 - » Experiment manually on D/A Converter Chip based on the assigned datasheet
- **Brightness Control (Module 1)**
 - » Learning contents on HMI
 - » Remote control experiment on PC
 - » Analysis and storage of waveforms through DSO in HMI
- **Photo TR Experiment (Module 2)**
 - » Learning contents on HMI
 - » Remote control experiment on PC
 - » Analysis and storage of waveforms through DSO in HMI
 - » Photo TR characteristics
- **CdS Cell Experiment (Module 3)**
 - » Learning contents on HMI
 - » Remote control Experiment on PC
 - » Analysis and storage of waveforms through DSO in HMI
 - » CdS cell characteristics

> SPECIFICATIONS

A/D CONVERTER

- Resolution : 8bits
- Conversion Speed : 100 μ s
- Analog Input Range : 0~12.75V
- Digital Output Level : 5V \pm 0.2V TTL
- Full Scale Error : \pm 1 LSB
- Display : 4 digit 7 segment

D/A CONVERTER

- Resolution : 8bits
- Conversion Speed : 100ns
- Analog Output Range : 0~12.75V
- Full Scale Error : \pm 1 LSB
- D/A Chip Type : Complementary current output
- Display : 4 Digit 7 Segment

APPLICATION MODULE

- **Light Bulb's Brightness Control(Module1)**
 - » Brightness control by voltage
- **Photo TR's Light Reception(Module2)**
 - » Analysis of response characteristics for light
- **CdS Cell's Light Reception(Module3)**
 - » Luminous intensity control
- **Module Size** : 100(W) x 36(H) x 45(D)mm
- **Module Wight** : 60g

PC INTERFACE

- **MCU** : T89c51RD2
- **PC Interface** : RS-232C(38400 bps)

GENERAL CHARACTERISTICS

- **Input Voltage** : AC 220V
- **Dimension** : 346(W) x 121(H) x 219(D)mm
- **Weight** : 3.7 kg

ACCESSORIES

- Program CD : 1ea
- Serial Cable : 1ea
- BNC Cable : 2ea
- AC Power Cord : 1ea
- Instruction Manual : 1ea

OS ENVIROMENT

- OS : Windows XP, 2000, NT 4.0
- Hard Disk min. 50Mbyte free Space
- Pentium-III 500MHz or higher
- With Serial Port
- RAM min 256MB