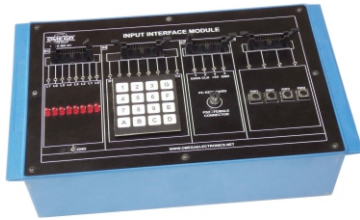
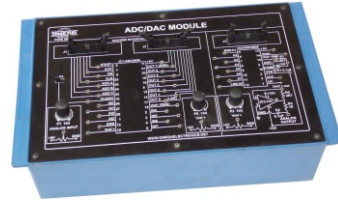


**APPLICATION MODULES FOR
MICROCONTROLLER WITH PROGRAMMER
AT89S51/52, AVR ATMEGA8515
OMEGA TYPE MCM-01 & MCM-02**

**INPUT INTERFACE MODULE
OMEGA TYPE MCM-01**



**ADC/DAC MODULE
OMEGA TYPE MCM-02**



Omega Type MCM-01 input interface module for Microcontroller development board with programmer trainer, MCM-01 is an Extension module. The module has been designed to demonstrate the students and practicing engineers to gain invaluable practical experience on the principle and applications of microcontroller. The objective is to have a clear understanding of how input peripherals are interfaced and controlled with microcontroller.

Input interface module, MCM-01 has input and output terminals for connection of external real world applications. Matrix keypad controlling and pressing is shown with the help of LED's.

OBJECTS:

- 01 To study and analyze the interfacing of switches
- 02 To study implementation, analysis and interfacing of ASCII Keyboard
- 03 To study implementation, analysis and interfacing of 4 x 4 matrix Keypad

TECHNICAL SPECIFICATIONS:

- | | |
|-------------------|--|
| 01 LED'S | : Output LEDs Indicator Eight No's |
| 02 Keypad | : 4 x 4 Matrix Keypad |
| 03 Keyboard | : ASCII Keyboard |
| 04 Switches | : Four No's |
| 05 Power supply | : From Microcontroller development board with programmer trainer OE-5001 & OE-5003 |
| 06 Interface | : Using 20 pin FRC cable |
| 07 Test points | : 24 |
| 08 Dimension (mm) | : W 340 x H 125 x D210 |
| 09 Weight | : 700 gm (approx) |

GENERAL SPECIFICATIONS:

- 01 PC based Programming
- 02 Expansion connectors for plug in with Micro controller Unit and prototyping area
- 03 Every pin is marked in order to make work easier
- 04 Input/Output test points provided on board
- 05 Ready Experiments
- 06 Exhaustive course & reference material

LIST OF ACCESSORIES:-

- 01 Operating Manual
- 02 PC Key Board

Omega Type MCM-02 ADC/DAC module enables students and practicing engineers to gain invaluable practical experience of the principles and applications of microcontroller. The objective is to have a clear understanding of how analog inputs are converted into digital through ADC/DAC module and vice versa. MCM-02 has inputs and outputs terminals for connection of external real world applications.

OBJECTS:

- 01 To study interfacing of ADC 0808 with Microcontroller
- 02 Study of timing and control signals of ADC with MCU
- 03 To study interfacing of DAC 0808 with Microcontroller

TECHNICAL SPECIFICATIONS.

- | | | |
|--|--|------------|
| 01 8 channel | ADC Interface | : ADC 0808 |
| 02 DAC Interface | : DAC 0808 | |
| 03 ADC Input and Reference voltage range | : 0 - 5 V DC (Variable) | |
| 04 Power supply | : From Microcontroller development board with programmer trainer OE-5001 & OE-5003 | |
| 05 Interface | : Using 20 pin FRC cable | |
| 06 Test points | : 48 | |
| 07 Dimension (mm) | : W 340 x H 125 x D210 | |
| 08 Weight | : 700 gm (approx) | |

GENERAL SPECIFICATIONS:

- 01 PC based Programming
- 02 Expansion connectors for plug in with Micro controller Unit and prototyping area
- 03 Every pin is marked in order to make work easier
- 04 Input/Output test points provided on board
- 05 Ready Experiments
- 06 Exhaustive course & reference material

LIST OF ACCESSORIES :-

- 01 Operating Manual
- 02 Patch cord 2mm length 50cm Red & Black.....03.

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

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