

# APPLICATION MODULES FOR MICROCONTROLLER WITH PROGRAMMER AT89S51/52, AVR ATMEGA8515

OMEGA TYPE MCM-05 & MCM-06

### MOTOR DRIVE MODULE OMEGA TYPE MCM-05



Omega Type MCM-05 Motor drive module for Microcontroller development board with programmer trainer, MCM-05 is an Extension module. The module has been designed to have a clear understanding of how motors are interfaced and controlled with microcontroller. The Motor drive module is made in such a way that student can understand the whole concepts of stepper motor, DC motor and Servo system.

#### OBJECTS:

- 01 To Study implementation, analysis and interfacing of Stepper Motor.
- 02 To Study Direction and angle controlling of Stepper Motor.
- 03 To Study implementation, analysis, and interfacing of DC Motor.
- 04 To Study PWM and it's application in Speed Control of DC Motor.
- 05 To Study interfacing of Servo Motor and it's angle control through PPM (pulse position modulation.)

# TECHNICAL SPECIFICATIONS

01 Stepper motor: +12 V 02 DC Motor : +12 V 03 Servo motor: +5 V

04 Power supply: FromMicrocontroller development

board with programmer trainer

OE-5001 & OE-5003

05 Interface : Using 20 pin FRC cable

06 Test points

07 Dimension

: W340 xH125 xD210 (mm)

08 Weight : 1.3 Kg (approx)

#### **GENERAL SPECIFICATIONS:**

- 01 PC based Programming
- 02 Expansion connectors for plug in

With Microcontroller 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

# **ELEVATOR CONTROL MODULE OMEGA TYPE MCM-06**



Omega Type MCM-06 Elevator control Module enables students and practicing engineers to gain invaluable practical experience of the principles and application of Elevator and Microcontroller. The objective is to connect and program an external controller to monitor and control elevator system. Elevator control module is shown with the help of switches and LED'S. The apparatus is connected with development trainers. Three floors as shown on board, switches are used to call and go to the desired floor. LED'S are indicating on which floor the elevator is present. The Elevator Module is made in such a way that student can understand how elevator can be control by microcontroller and also get familiar with how inputs and outputs of microcontroller are used.

### **OBJECTS:**

01 To analyze and simulate the Two floor elevator control system.

### TECHNICAL SPECIFICATIONS

: 7 Nos. 01 LED'S 7 Nos. 02 Switches

03 Power supply FromMicrocontroller development board with

> programmer trainer OE-5001 & OE-5003 Using 20 pin FRC cable

04 Interface W 340 x H125 x D210mm 05 Dimension

06 Weight 700 gm (approx)

# **GENERAL SPECIFICATIONS:**

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

#### LIST OF ACCESSORIES:-

01 Operating Manual

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

# OMEGA ELECTRONICS

Works: 28E & F, Malviya Industrial Area, Jaipur-302 017 (INDIA) Phone: 0141-2751559

E-mail: info@omegaelectronics.net : omegajaipur62@gmail.com

**Marketing Division:** 

B-28, Fateh Singh Scheme, Opp. Rajputana Palace Sheraton, Jaipur-302006 (INDIA) Phone: 091-141-2375647, 2379223