



**Mine MI-PW10 Speed control of Universal Motor** has been designed specifically to demonstrate the importance of SCR in controlling speed of an universal motor. This kit is extensively designed for institutions to train/teach their students in more effective manner about Fundamentals of speed control of universal motor using external trigger pulses.

### Features

- Inbuilt DC Power Supply
- Inbuilt AC Source
- Inbuilt Triggering Circuit
- On board 3 pin socket to connect motor
- Firing angle control: 0 to 180 degree
- SCR circuit : Bridge rectifier and anti-parallel connected SCR
- Isolation between SCR power circuit and firing circuit
- Test point to observe output of different points
- Symbols and Diagram are printed on glass epoxy PCB
- Attractive ABS Plastic Cabinet

### Technical Specifications

On board firing circuits	: TCA785 based firing method
On board 3 pin Socket	: 1nos.
SCR	: 4 SCRs
Pulse transformer	: 1:1:1
Test points/Inter connections	: Interconnections are done using 2 mm & 4mm banana sockets
Input Line Voltage	: 230V AC $\pm$ 10%, 50Hz
Dimensions (mm)	: 270 (L) x 170 (W) x 62 (H)
Weight	: < 3.5Kg. Approximate

### Learning's

- Study the speed control of universal motor using bridge rectifier.
- Study the speed control of universal motor using anti-paralleled SCR.

### Package Contents



Power Cable



Patch Cord



User Manual

**Mine Instruments Pvt. Ltd.** An ISO 9001:2015 Certified Company

67-B, First Floor, Electronic Complex, Pardeshipura, Indore-452010 (M.P.) India

e-mail: info@mineinstruments.in, mineinstruments@gmail.com,

More information: www.mineinstruments.in

Tele Fax: +91-731-4246503, +91-6262603222

**Regional Contacts-**

**East** : +91-6262608000

**North**: +91-6262605000

**South**: +91-6262601000

**West** : +91-6262609000

**Emails-**

kolkata@mineinstruments.in

north@mineinstruments.in

south@mineinstruments.in

west@mineinstruments.in

