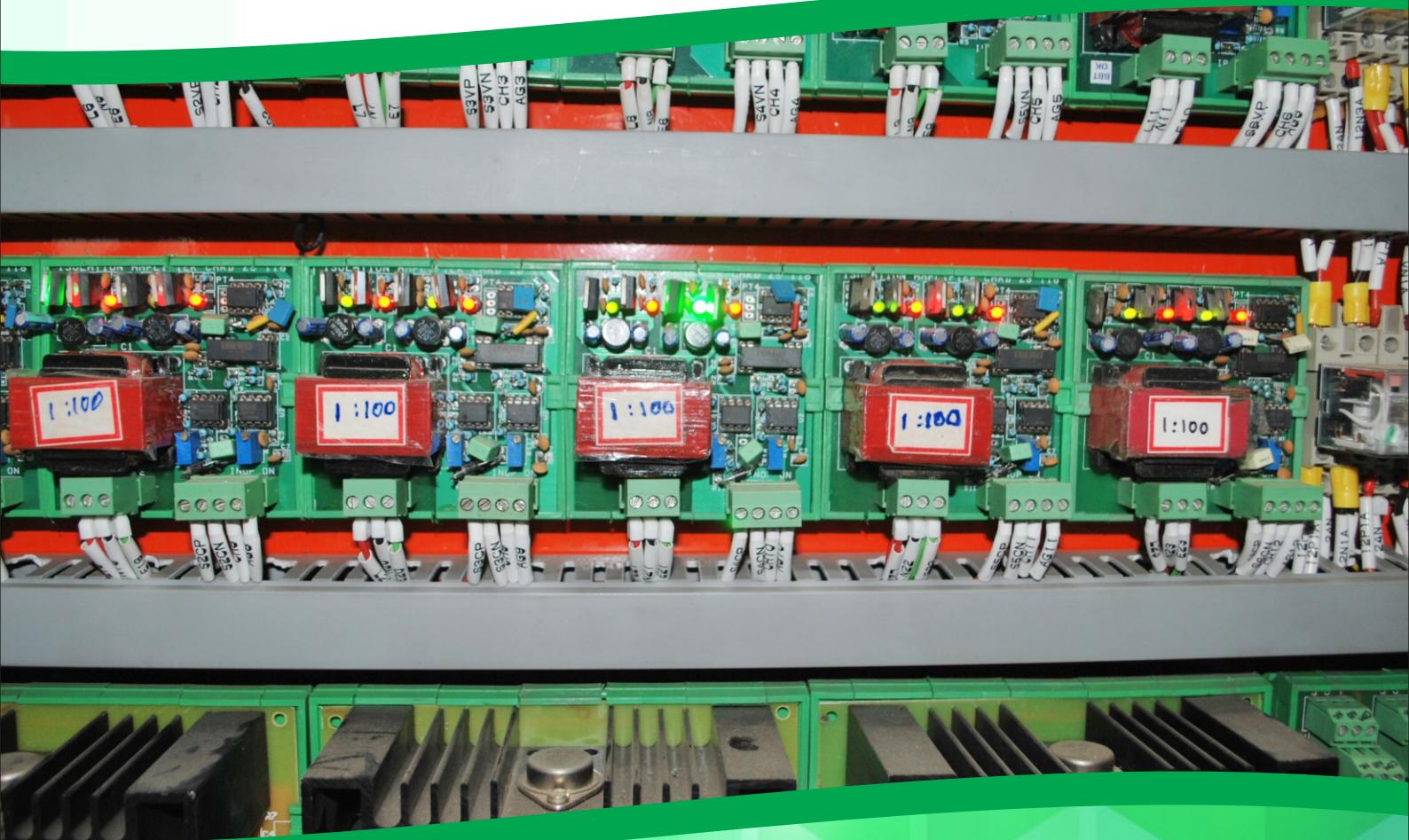




MITHRA AUTO ANCILLARIES

## Control Modules

## Control Panel Accessories



224/2, Nageswara Rao Road  
Vanagaram Road, Athipet, Chennai - 600058.  
Phone: +91-044-26880963  
Email: mithraautoancillaries@gmail.com

## Power Supply card



try bullets icons



- a. Input Voltage : 22-26V AC, 50Hz
- b. Output Voltage : 24V DC @ 5A
- c. Line regulation 0.1%
- d. Thermal regulation
- e. Current limit constant with temperature
- f. Fuse protection available.
- g. Short circuit protection available input and output.
- h. Voltage control by external pot facility available.
- i. Range: 24V/5A, 12V/5A and 5V/5A
- j. Adjustable range: 1.2 to 30V DC
- k. Shell material: Nylon Plastic Case
- l. Mounting type: Din rail mounting
- m. High quality and high performance
- n. High efficiency and reliability
- o. Long term running in factory atmosphere.
- p. 100% load.

## Relay card



- a. Type: 24V, 12V, 5V DC relay
- b. Output Voltage : Switching 230V DC @ 5A / 24V DC
- c. Single change over & Double change over  
d. 1 CO & 2 NO facility available
- d. High sensitivity
- e. Flux protection
- f. Satisfied operating temperature temperature 85 degree -105 degree
- g. Shell material: Plastic Case
- h. Mounting type: Din rail mounting
- i. High quality and high performance
- j. High efficiency and reliability
- k. Long term running in factory atmosphere.
- l. Dust protected and sealed
- m. Various brand available (Finder, Omron, OEN & MH relay)
- n. Models available in single, double, four and eight channels.





## Frequency to Voltage converter card

- a.Input: 230V AC, 50Hz
- b.Input Pulse level: 5V, 12V, 24V
- c.Control Signal Input : Frequency Input (0-100 KHz)
- d.Output: 0-10V DC (custom built)
- e.~~Used in speed regulation of motors and used to drive pumps & fans~~
- f.Convert square wave to DC voltage
- g.Used to measure the sensor signal (speed)  
to PLC to measure the Speed of the motor.
- h.Shell material: Plastic Case
- i.Mounting type: Din rail mounting
- j.High quality and high performance
- k.High efficiency and reliability
- l.Long term running in factory atmosphere.

## 100mA Current source card

- a.Input: 230V AC, 50Hz
- b.Linear voltage regulator
- c.High output voltage accuracy
- d.Used as a current regulator
- e.Current limiting
- f.Power limiting
- g.Thermal shutdown
- h.Over voltage protection
- i.Current range : 10mA-500mA
- j.Shell material: Plastic Case
- k.Mounting type: Din rail mounting
- l.High quality and high performance
- m.High efficiency and reliability
- n.Long term running in factory atmosphere.



## FRC to Screw Terminal PCB/ D to Screw Terminal PCB



- a.FRC to Screw connectors/terminals
- b.Board to board connections
- c.Wire to board connections
- d.D connector Range: 9/15/25/37/50 Pin D connector available.
- e.FRC connectors Range: 20/24/40/50 Pin FRC connector
- f.Used in rotary and linear encoder
- g.Shell material: Plastic Case
- h.Mounting type: Din rail mounting
- i.High quality and high performance
- j.High efficiency and reliability
- k.Long term running in factory atmosphere.



## 8 Channel output Driver card



- a. Control Input: 5V/24V DC
- b. Control Output : 24V DC
- c. Driver Output: 24V DC,2 Amps
- d. Isolate the input signals to output signals
- e. To prevent high voltage from affecting the system to receive signal
- f. Switching the current flow on and off
- g. Used to switch on solenoids in mechanical system
- h. Used to switch the electrical contactor
- i. Shell material: Plastic Case
- j. Mounting type: Din rail mounting
- a. High quality and high performance
- b. High efficiency and reliability
- c. Long term running in factory atmosphere.

## 8 Channel Input Driver card

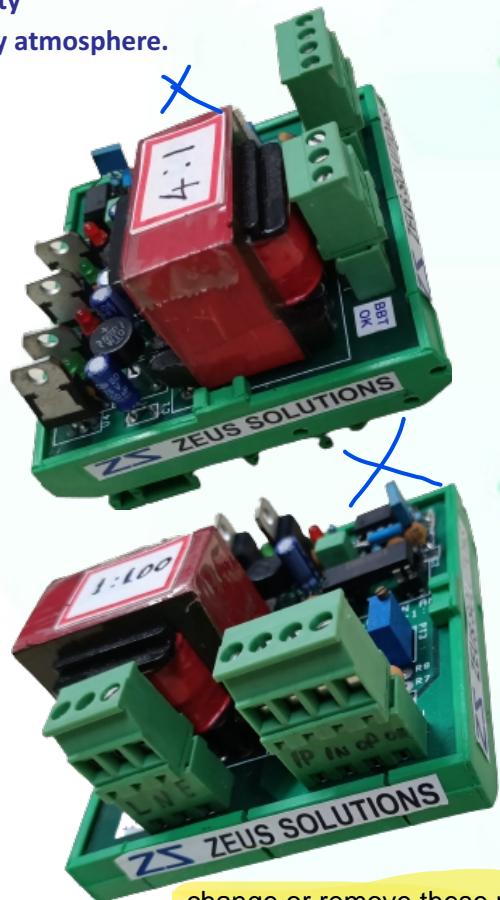


- a. Control Input: 24V/5V DC
- b. Control Output : 5V DC
- c. Driver Output: 24V DC,500mA
- d. Isolate the input signals to output signals.
- e. I/O Isolation for MCUs (Micro Controller units)
- f. Noise suppression in circuits
- g. Signal transmission between circuits of different potentials and impedances.
- h. To prevent high voltage from affecting the system to receive signal
- i. Used to read the input signals from Push buttons/external signals
- j. Used to read the inputs to PLC's/PC
- k. Shell material: Plastic Case
- l. Mounting type: Din rail mounting
- a. High quality and high performance
- b. High efficiency and reliability
- c. Long term running in factory atmosphere.



## Opto Isolator Card

- a. Input Range : 5V/12V/24V DC
- b. Output Range: 5V/12V/24V DC
- c. I/O Isolation for MCUs (Micro Controller units)
- d. Noise suppression in circuits
- e. Signal transmission between circuits of different potentials & impedances.
- f. Isolate the input signals to output signals
- g. To prevent high voltage from affecting the system to receive signal.
- h. It act as a voltage converter
- i. While preventing direct contact and high voltages from affecting the lower voltage side.
- j. Shell material: Plastic Case
- k. Mounting type: Din rail mounting
- l. High quality and high performance
- m. High efficiency and reliability
- n. Long term running in factory atmosphere.



## Isolation Amplifier (Eg: Divider 4:1/Gain 1:100/1:1)

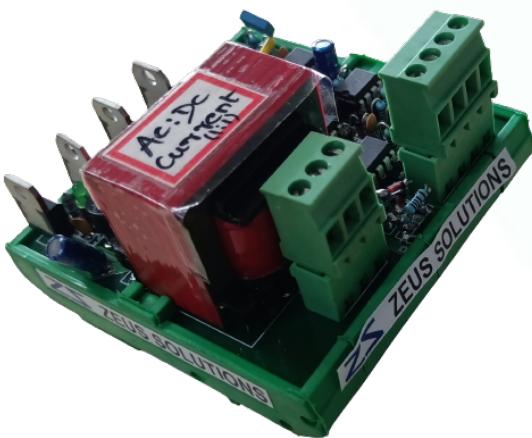
1: 100

- a. Input: 230V AC, 50Hz
- b. Input Signal : 0-10V DC / 0-40V DC/ 75mV- 7.5mV Conversion
- c. Output Signal – 0-10V DC / 0-40V DC/ 75mV- 7.5mV Conversion
- d. Product – Instrumentation amplifier
- e. Offset facility provided
- f. Internal divider provided in Divider isolation amplifier
- g. Gain tuning facility provided in isolation amplifier
- h. To measure the analog signals from power supply, Load cell, LVDT and Torque transducer, Temperature controllers and VFD Drives
- i. Signal transmission between circuits of different potentials and impedances.
- j. To prevent high voltage from affecting the system to receive signal
- k. Shell material: Plastic Case
- l. Mounting type: Din rail mounting
- m. High quality and high performance
- n. High efficiency and reliability
- o. Long term running in factory atmosphere.



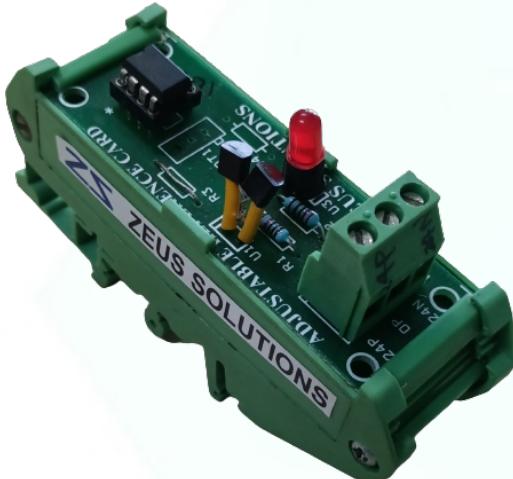


## Isolation Amplifier AC:DC (AC Voltage & AC Current)



- a. Input: 230V AC, 50Hz
- b. Input Signal : 0-10V AC
- c. Output Signal – 0-10V AC
- d. Product – Instrumentation amplifier
- e. To measure the analog signals from AC High Voltage units, Auto transformer, AC Motor & etc.
- f. To measure the AC leakage current in High voltage circuits.
- g. Signal transmission between circuits of different potentials & impedances.
- h. To prevent high voltage from affecting the system to receive signal
- i. Shell material: Plastic Case
- j. Mounting type: Din rail mounting
- k. High quality and high performance
- l. High efficiency and reliability
- m. Long term running in factory atmosphere.

## Adjustable reference card



- a. Input Voltage : 24V DC
- b. Output Voltage: 0-5V DC, 0-10V DC adjustable
- c. Applications: LVDT, Load cell , Torque sensor.
- d. Shell material: Plastic Case
- e. Mounting type: Din rail mounting
- f. High quality and high performance
- g. High efficiency and reliability
- h. Long term running in factory atmosphere.

## Regulated Power supply 78XX/79XX Series



- a. Input Voltage : 9VAC/14VAC/26AC
- b. Output Voltage:5V/12V/24V DC
- c. Applications: LVDT, Load cell
- d. Shell material: Plastic Case
- e. Mounting type: Din rail mounting
- f. High quality and high performance
- g. High efficiency and reliability
- h. Long term running in factory atmosphere.

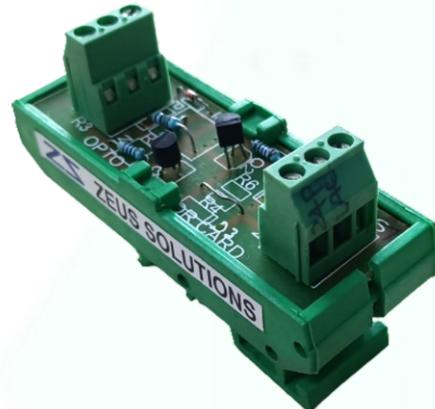
## Divider Card



- a. Input Voltage: Custom Built
- b. Output Voltage: Custom Built (Eg: 1000:10/ 100:1)
- c. Applications: To Read the DC High voltage from IR Testers etc.
- d. Shell material: Plastic Case
- e. Mounting type: Din rail mounting
- f. High quality and high performance
- g. High efficiency and reliability
- h. Long term running in factory atmosphere.

## High Speed Card

- a. Input Voltage: Custom Built (12V/24V)
- b. Output Voltage: Custom Built (12V/24V)
- c. Applications: To Read the Encoder pulses and High speed pulses.
- d. Shell material: Plastic Case
- e. Mounting type: Din rail mounting
- f. High quality and high performance
- g. High efficiency and reliability
- h. Long term running in factory atmosphere



## Solid State Relay card

- 1) It is an electronic switching device
- 2) Types: 2 ch/ 4ch/8ch
- 3) Input voltage - 24v DC  
Output voltage – 230v @3A AC  
– 24v @3A DC
- 4) The relay may be designed to switch either AC or DC loads
- 5) High sensitivity
- 6) Various brand available - Cosmo/ERI/etc
- 7) It has no moving parts and results in longer operational lifetime
- 8) Relays available – Cosmo/ERI/etc
- 9) Shell material: Plastic Case
- 10) Mounting type: Din rail mounting
- 11) High quality and high performance
- 12) High efficiency and reliability
- 13) Long-term running in factory atmosphere.
- 14) Dust protected and sealed

