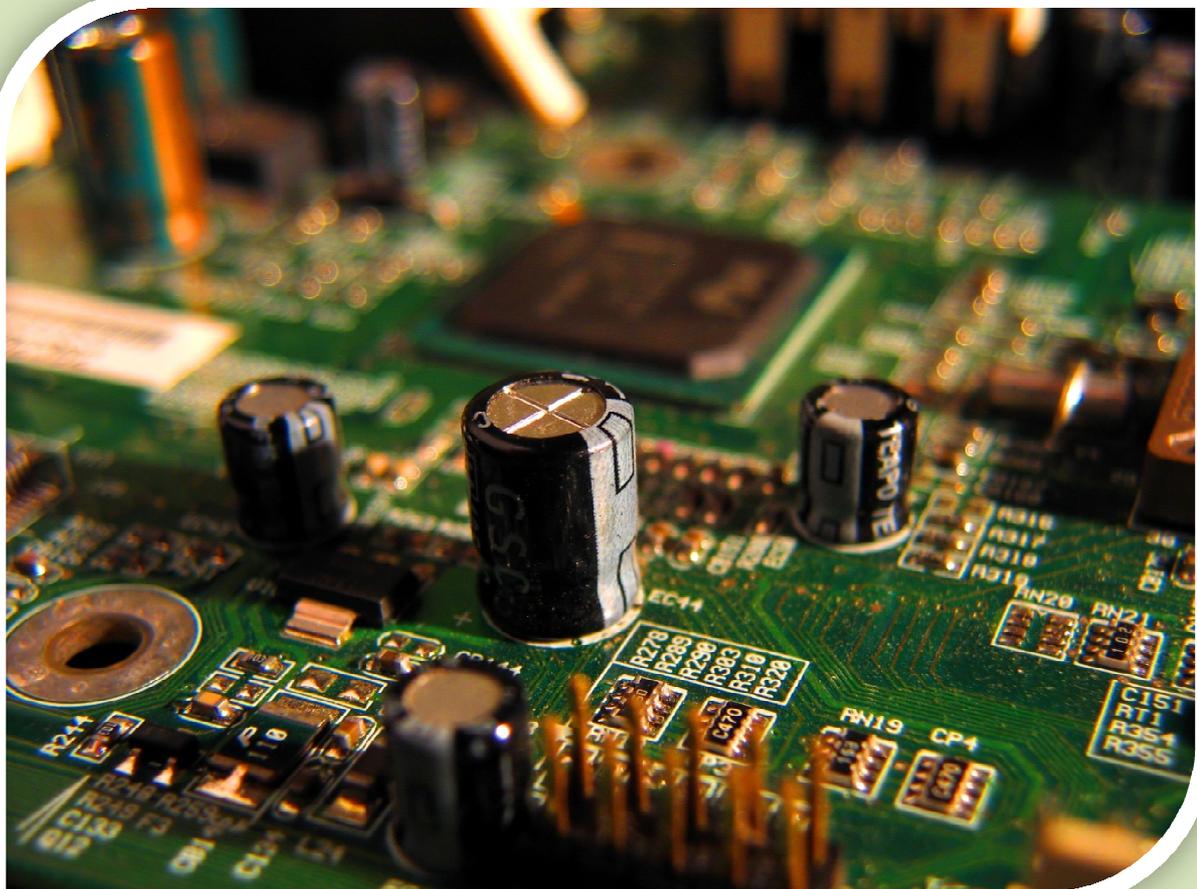
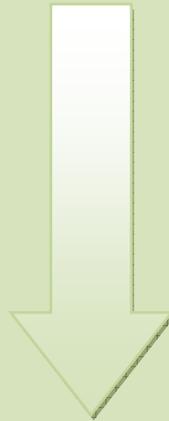


Amitech Electronics Design

Services offered are - Electronic product design, PCB design and fabrication, Electronics assembly, Contract manufacturing, Electronic component sourcing, Reverse engineering, Custom design.

We are the core expertise in,

- Electronics Product design
- Microcontroller programming
- PCB design
- Reverse engineering
- Component sourcing
- PCB assembly
- IOT, Wireless technologies

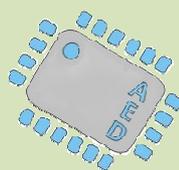


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* Regular Products *

1) Elevator Overload Controller



Description:

Every elevator cabin has a specified weight carrying capacity above which elevator doesn't move or operate. Our overload controller unit takes care of the real time measurement of cabin weight and generates a signal which is read by elevator master controller and takes decision of movement. Our controller is a major part of elevator control system. This controller can be used with any type of 4 wire load cell sensor.

Specifications:

Input Voltage	: 15VDC to 40VDC, 1A max.
Load Cell Type	: 4 Wire Bridge
Relay Outputs	: 2 (NO, NC, COM)
Contact Ratings	: 1A @120VAC, 1A @24VDC
Display	: 8x2 Character Display

Features:

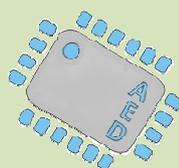
- Modular design, DIN rail mount.
- Reverse polarity protection at supply
- Easy one time calibration
- Dual relay Outputs.
- Multiple options for overload detect signal.
- Internal buzzer for overload alarm.
- Dynamic weight display on LCD.
- RS485 Modbus – RTU/ASCII.
- Extended cabin display to show % of weight or actual weight.
- Customization available.

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2) Temperature Controller



Description:

These are very versatile temperature controller can be used in many applications where output is required to turn ON/OFF as per set value of temperature. Operation can be in chiller or heater mode. Features like calibration, hysteresis, delay time, internal buzzer etc. makes it perfect for multiple applications.

Specifications:

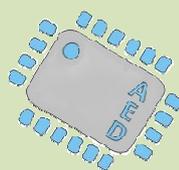
Display	: 3 Digit, Seven segment display, 0.56"
Temperature Probe	: NTC 10K
Relay Output	: 2A or 5A or 8A @ 230VAC
Power Supply	: 230VAC or 110VAC or 24VDC or 12VDC
Resolution	: 1°C or 0.1°C
Accuracy	: ± 1°C
Panel Cutout	: 70mm X 30mm
Communication Output	: Modbus (RS485) or Bluetooth
Signal Output	: 0-5VDC or 4-20mA
Safety Inputs	: 1 or 2

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3) Magnetic pipe inspection



Description:

This system is effectively used for pipe inspection. Heavy magnetic field is generated for metal pipe crack detection. 3 different operating modes namely auto/manual/timer.

Overload protection if coil current exceeds specified current rating. Internal thermistor to protect against temperature limits.

Specifications:

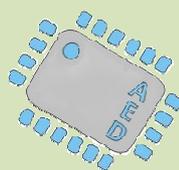
Display	: 3 Digit, 7 segment display, 0.56" or 16x2 Character LCD
Power Supply	: 220 – 260VAC
Coil Current	: 8Amp / 10Amp / 12Amp
Accuracy	: ± 1 Amp
Coil Diameter	: 12" / 14"
Communication Output	: Modbus (RS485)
Signal Output	: 0-5VDC or 4-20mA
Safety Inputs	: 1 or 2

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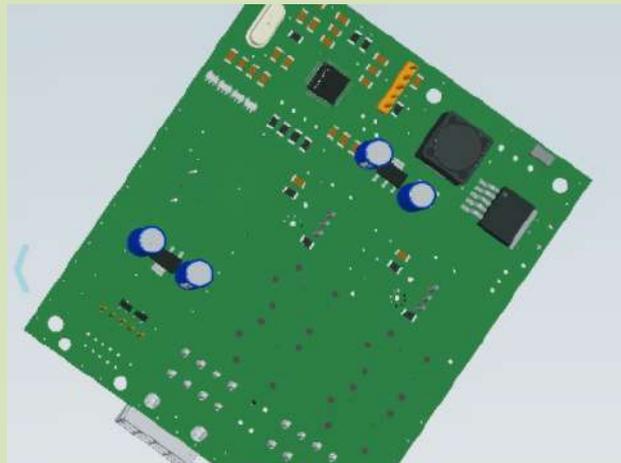
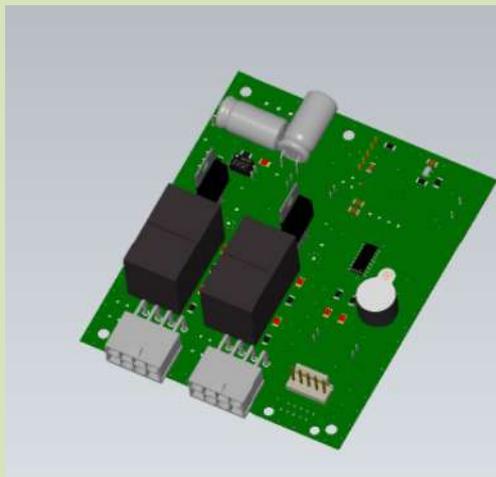
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4) DC motor control



Description:

This is a customised controller. This controller is used in applications like where distance and its speed regardless of load on DC motor both are the key factors. This controller can drive two motors concurrently and both works in sync with each other. Motor speed is adjusted as per encoder feedback. And it has overload protection on both the motors. Any type of DC motor from 12vdc to 24vdc can be used with an encoder feedback.

Specifications:

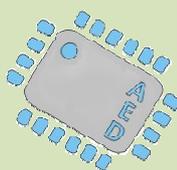
Display	: 3 Digit, 7 segment display, 0.36"
Power Supply	: 24VDC / 12VDC
Communication Output	: Modbus (RS485) or Bluetooth (BLE 5.0)
Signal Output	: 0-5VDC or 4-20mA
Safety Inputs	: 1 or 2

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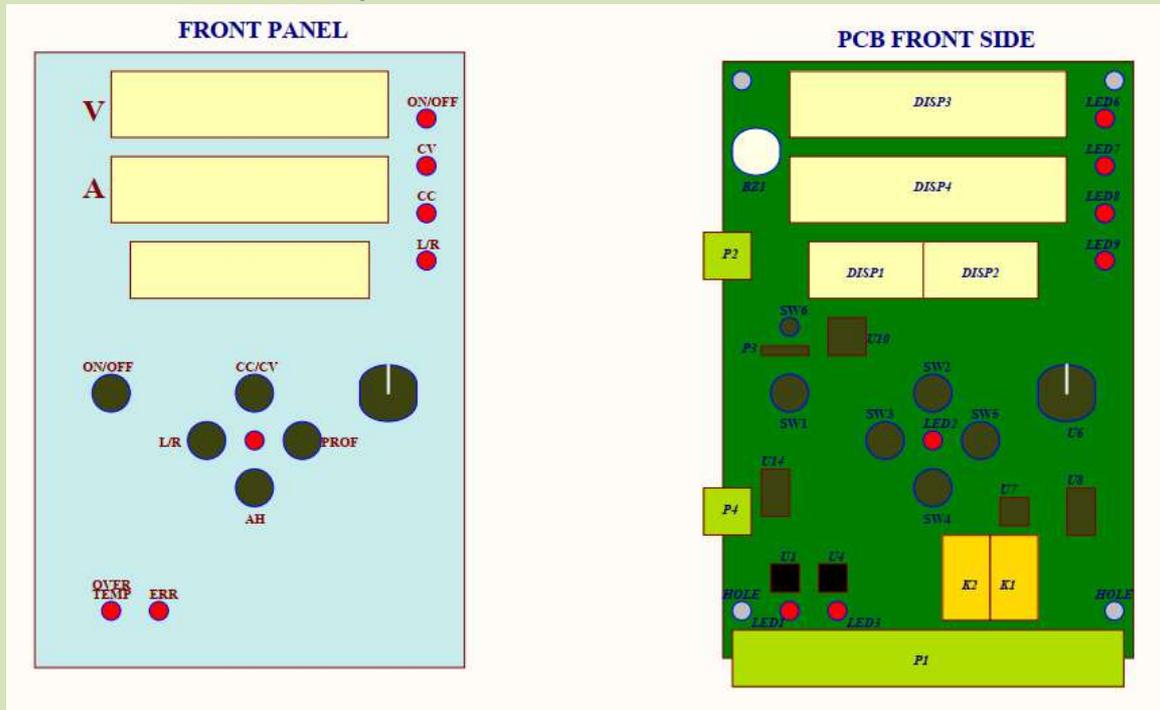
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5) AH meter for rectifier control



Description:

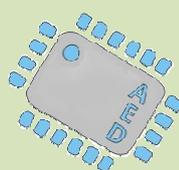
This controller is used to control electroplating rectifies output voltage and current. It works in CV or CC mode. This controller is fully configurable by using keypad and 7 segment display. Once control is started, current accumulated ampere/hour value is displayed. Real time output voltage and current is monitored and displayed. In CV mode, controller generates reference signal in the range of voltage rating of controller. And in CC mode this generates reference signal in the range of current rating of controller.

Specifications:

Display	: 4 Digit, 7 segment display
Power Supply	: 24VDC / 12VDC
Control voltage	: 12VDC / 24VDC / 48VDC
Voltage resolution	: ± 0.1 VDC
Control current	: 250Amp/500Amp/1000Amp
Current resolution	: ± 1 Amp
Communication Output	: Modbus (RS485)
Reference Signal Output	: 0-5VDC
Safety Inputs	: 1 or 2

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Project Experience

Developed complete solutions including Hardware & Software.

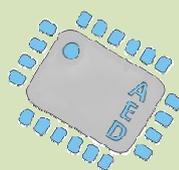
- ❖ AH meter & RS485 MODBUS communication for "M\s RUTTOSHA INTERNATIONAL RECTIFIERS"
- ❖ BLDC motor driver card in Electric bike for "M\s LIGER MOBILITY"
- ❖ 2kw battery charger for "M\s LIGER MOBILITY"
- ❖ Biomedical machine for M\s SHREEJIZ FITNESS"
- ❖ RS485 to Ethernet converter for "M\s Om industries & services"
- ❖ Digitally Controlled MPI Coil for "Tubestar Oil & Gas Services"
- ❖ Barcode Sorting System For Metal Tins for "Bharat Tin Works"
- ❖ BLE Based Solar MPPT Controller for a private firm.
- ❖ AC Fail Timer For Elevators for "A. K. Automation"
- ❖ Wireless Smoke Detector for "Skytron Systems"
- ❖ AC/DC Meter & Controller "SKE Powerhouse"

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* Projects Portfolio *

- **Digitally Controlled MPI Coil**

The process puts a magnetic field into the part. The piece can be magnetized by direct or indirect magnetization. Direct magnetization occurs when the electric current is passed through the test object and a magnetic field is formed in the material. Indirect magnetization occurs when no electric current is passed through the test object, but a magnetic field is applied from an outside source. The magnetic lines of force are perpendicular to the direction of the electric current, which may be either alternating current (AC) or some form of direct current (DC) (rectified AC). The presence of a surface or subsurface discontinuity in the material allows the magnetic flux to leak, since air cannot support as much magnetic field per unit volume as metals. To identify a leak, ferrous particles, either dry or in a wet suspension, are applied to a part. These are attracted to an area of flux leakage and form what is known as an indication, which is evaluated to determine its nature, cause, and course of action, if any.

- **Barcode Sorting System For Metal Tins**

Customer is the manufacturer of metal colour cans. The can which they manufactures have barcode printed on it. These metal cans are sent on conveyer and at this stage customer wants the system which scan the barcode of each can and if any wrong barcode can comes it generates and alarm or rejects the faulty can.

- **BLE Based Solar MPPT Controller**

This system has normal solar MPPT control. It is controlled by any mobile Bluetooth. It is a prepaid solar energy controller. Through a mobile app operator can enter (recharge) a amount of KWh required. And same amount of energy will be delivered by controller, if KWh exceeds than recharged amount then controller will stop delivering power. Controller can log data from start to end and that log can be recalled in mobile app.

- **AC Fail Timer For Elevators**

This system used to switch load to battery if AC supply fails. If AC fails Elevator cabin has to come to nearest floor position. For that it needs power and that power is supplied by batteries. This controller switches from AC to battery for settable time.

- **Wireless Smoke Detector**

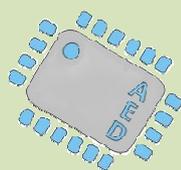
This controller is used to convert existing wired smoke detector into wireless smoke detector. Each wireless smoke detector has one output for when smoke is detected. This controller reads that output and transmits this signal to receiver placed in the detectable range. It has auto connect feature, and connection lost indication. Range can be settable from 10 to 100meters.

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- **Multifunctional Timer**

System where user want to automatic turn ON or OFF the load similar to our mobile alarms. This system has two alarm settings; each alarm can be programmed separately with separate ON/OFF time. It has internal buzzer user can set buzzer ON/OFF for each alarm. System has two relay outputs; user can assign any relay to any alarm. Time and settings are retained even if power supply is gone. Character display and keys makes it user friendly.

- **AC/DC Meter & Controller**

This system has AC/DC voltage and current measurement. In this system voltage and current threshold is set for load. If voltage and current passing through load is not within the set tolerance, it will turn OFF the load and save the log. This logs the data of each test. It has various settings like time and date, voltage & current threshold set, See Log etc.

- **Load Cell Controller For Elevator**

Each elevator cabin has load carrying capacity which, it should not move if load is beyond it limit. This controller used to measure load of cabin and if load is more than the set threshold it will inform main controller not to move cabin.

- **Touch Bell**

Simple door bell is converted into fancy LED based bell which does not have any switch. It has simple touch sensor which detects touch and starts its LED pattern. And bell rings.

- **Piezo Based LED Table**

Simple Table has fish & underground sea picture carved in glass and each fish eye has LEDs. And underground grass has RGB LED. In normal condition this table runs in low power mode, everything is OFF. When someone puts anything on table, it starts its all lighting in very nice pattern.

- **Wireless Elevator Control System**

For a very minimum installation and maintenance time this controller is designed. It has minimum wiring between various control cards and has wireless communication between car top and master board. It has many feature than normal elevator control system.

Thank You.....

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