



MADE IN INDIA



**Developing the
Future with you....**



ADCO CONTROLS
Mfg. of Elevator Control Systems

We Shape Stories and the way People Experience Team.

Force Within

Foresight

With a resolute determination to outdo our best performance, we aim to stand at par with world leaders. We tread on roads less travelled and envision to be recognized as the most innovative organization across the nation.

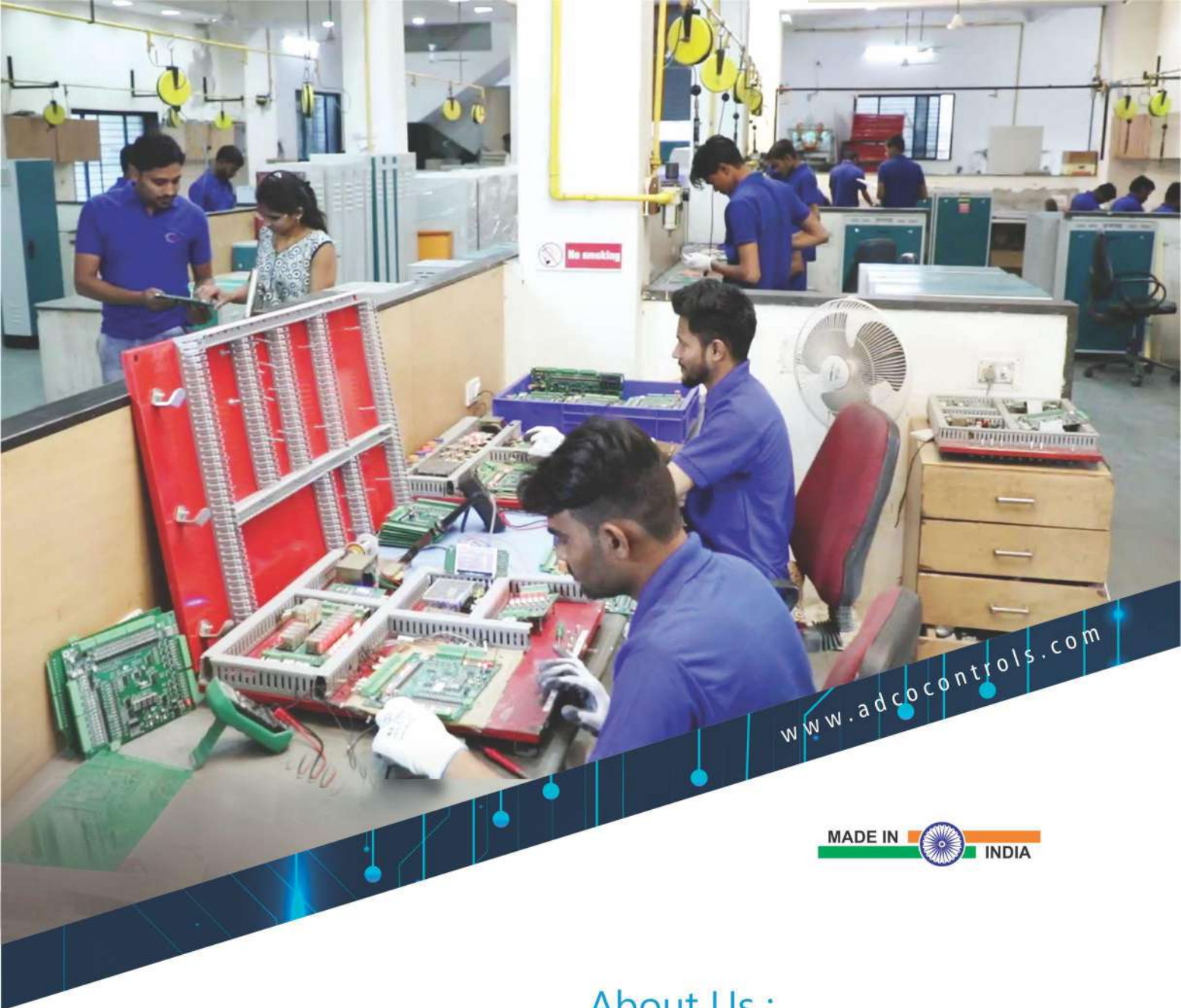
Aim

Our mission is to stay updated with the newest technology in international market and making the best of it. Expanding our horizons in terms of new trends, skills and knowledge, thereby proposing something new to our clients each time.

Assets

ADCO stands high on its service excellence that finds its roots in organization's foundational values of sincerity, creativity, integrity, dedication and value addition.





About Us :

We feel extremely glad to introduce our company in the world of ELEVATORS. We have been manufacturing high tech, cost effective yet robust micro-controller based controls systems Since 1995.

Our highly skilled team is capable of achieving almost all the tasks that so far have come across by putting their constant efforts with innovative ideas involving the latest technologies and strong approach towards the quality. We always give quality service to our customers because we believe that "OUR CUSTOMER IS OUR GOD".

We have an expertise in the field of elevators and we develop our systems according to the requirement of an industry. We do have clients in INDIA as well as abroad.

Our quality service includes manufacturing all types of elevator integrated drive, control systems, associated cards and all types of relevant accessories.

So the bottom line is that if you really want to end up your search in the field of ELEVATORS then we are ONE STOP DESTINATION for your needs.

We highly appreciate your any sort of quotes regarding any of your requirements of elevator control systems.



Ajay Davda Managing Director

AD 450

Full Serial Close Loop
Integrated Solution

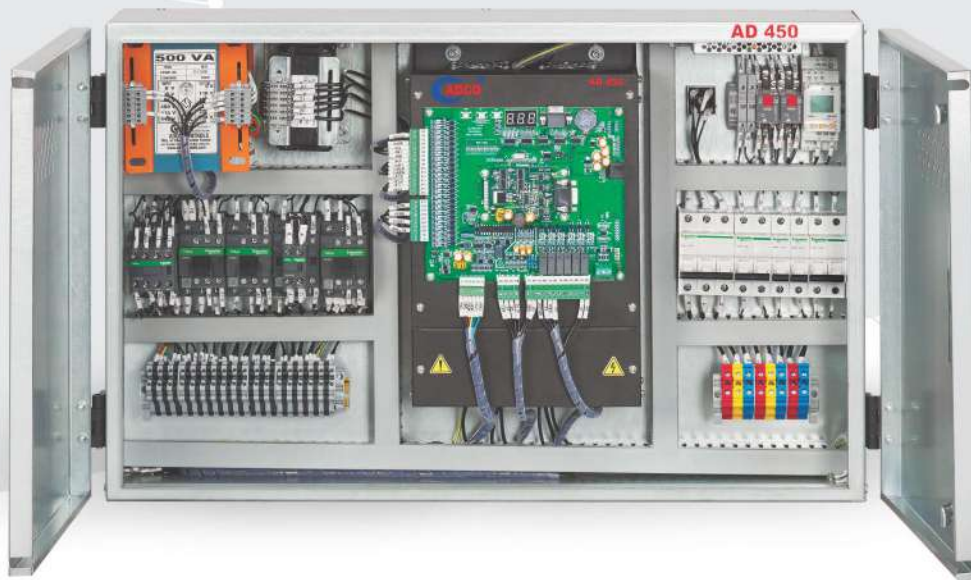
Integrated



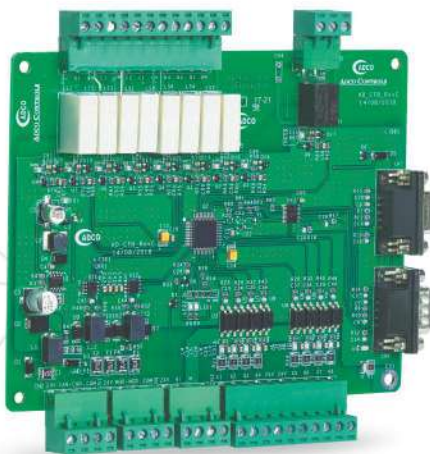
THiN Design

Power Rating

- 3.7kW to 30kW, Three-Phase (3 - Ø) 380 to 480VAC
- 2.2kW and 3.7kW Single-Phase (1 - Ø) 220VAC – Only PMSM



AD CTB



AD CCB



With Connection Cable

Feature :

- **AD450** is a new-generation close loop integrated elevator controller independently developed and **Manufactured by ADCO CONTROLS India.**
- It supports high-performance vector control and open-loop low speed running. It can drive both AC asynchronous motor and permanent magnetic synchronous motor (PMSM), and implement switchover between the two types of motors easily by modifying only one parameter.
- It adopts the distance-based direct stop technology, with Dynamic curves generated automatically at Run time, achieving convenient and comfortable riding.
- It supports a maximum of 40 floors In Serial,
- It supports CANbus and Modbus communication protocols for COP and LOP, which reduces the required traveling cables.
- It supports dedicated CANbus for Duplex Control System.
- All Type of encoder is supported.
- Flexible emergency backup power : 220Vac UPS power input makes Emergency evacuation easy.
- 20 fault codes with detail information to facilitate easy diagnostics.
- Automatic identification operation between short-floors.
- It support Standard Shaft position learning and Motor Tuning System.
- Handheld Operation Tools: Mini Keypad, to facilitate easy Commissioning.
- Advance door opening and re Leveling using option card.
- It supports Two Side Door Opening with Individual COP and LOP.
- It supports Elevator rated speed up to 4.0 m/sec
- Anti-Roll Back Function with pre-torque
- Call Cancel by double press, in serial Mode only.

AD 360

Parallel and Semi Serial
Close Loop
Integrated Solution

Integrated



Power Rating

- 3.7kW to 30kW, Three-Phase (3 - Ø) 380 to 480VAC
- 2.2kW and 3.7kW Single-Phase (1 - Ø) 220VAC – Only PMSM



AD CTB



Semi Serial :

- All Car Related Information through CAN bus. Landing Call Will be on board 24 Stop
- Down Collective, 12 Stop Full Collective.

AD CCB



AD EXT



Extension Card :

- With Extension 24 Stop Down Collective, 16 Stop Full Collective.
- All Button Input Output are Programmable.

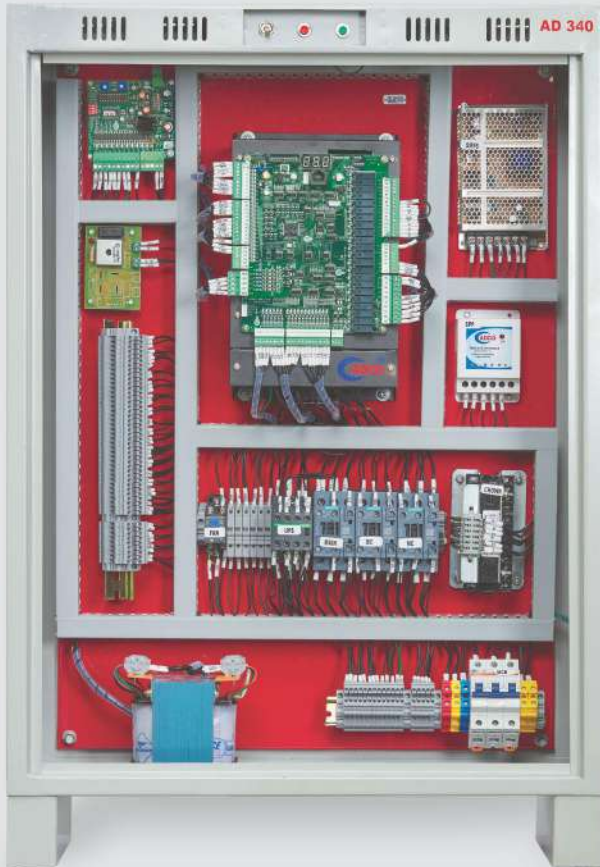
Feature :

- AD360 is the Ideal Integrated solution for elevator.
- Compatible both ACIM (Geared) and PMSM (Gearless) Machines.
- High Safety with Great Riding comfort.
- Displacement calculation methods derive the N velocity profile to achieve optimum direct-to-point distance control.
- Simple 2-wire serial communications to commission duplex group control.
- Flexible emergency backup power; 220 Vac power input makes emergency evacuation easy with automatic light load direction search
- Handheld Keypad operation tools make easy commissioning.
- 10 fault codes to facilitate easy diagnostics.
- Multiple type of encoder supported, Encoder Fault Protection.
- Advanced Door-Opening.
- Re-Levelling/Self-Rescue Levelling.
- Shaft Parameter Self-Learning.
- Anti-rollback without any external load cell (gearless machines).
- Flexible programmable I/O's.
- Static auto tuning for asynchronous and synchronous machines (without brake opening)
- Auto and Manual Door Supported.
- Double Door Supported.
- Target Floor Call LED Blinking.
- Elevator rated speed ≤ 1.75 m/sec.

Full Parallel :

- Button input and indicator output standard 26 (can be extended to 50).
- 12 Stop Down Collective, 8 Stop Full Collective.

Integrated



 **340**

Parallel and Semi Serial
Open Loop Integrated
Solution



Power Rating

- 3.7kW to 30kW, Three-Phase (3 - Ø) 380 to 480VAC



AD CTB



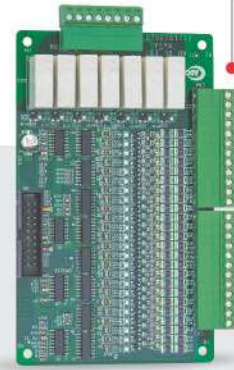
Semi Serial :

- All Car Related Information through CAN bus.
- Landing Call Will be on board: 12 Stop Down Collective, 12 Stop Full Collective.

AD CCB



AD EXT



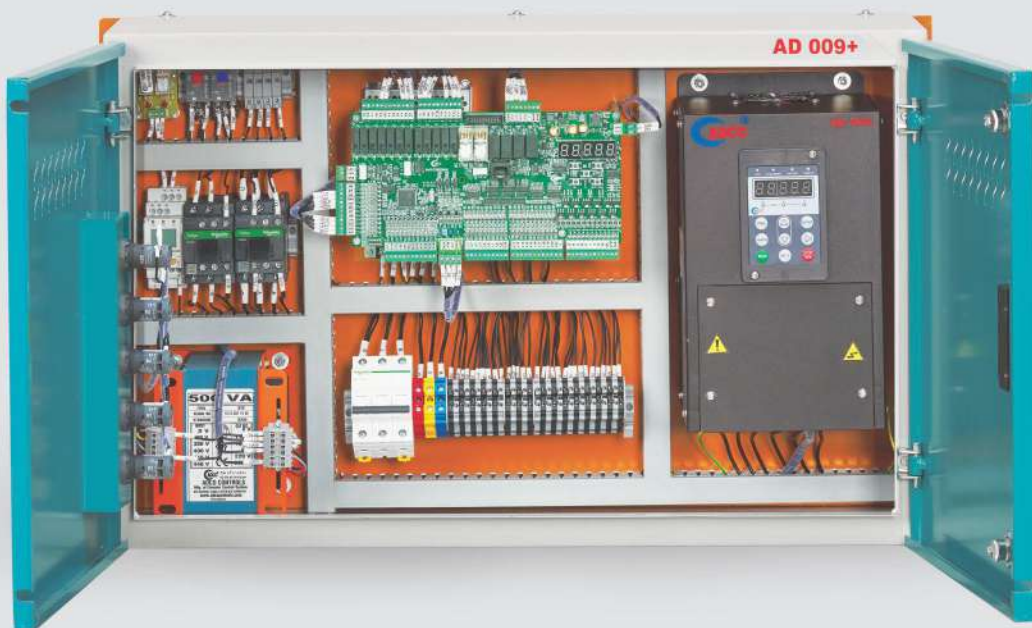
Extension Card :

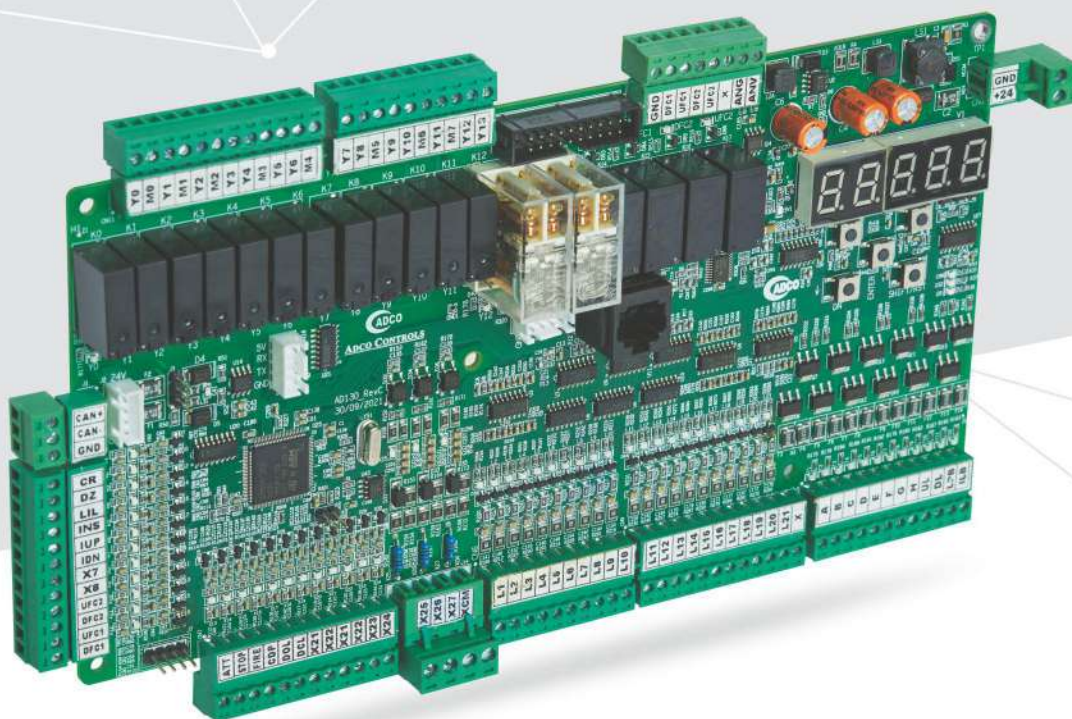
- With Extension 24 Stop Down Collective and 15 Stop Full Collective.
- All Button Input Output are Programmable.

Feature :

- **AD340** is a new-generation open loop integrated elevator controller independently developed and **Manufactured by ADCO CONTROLS India.**
- It supports high-performance vector control and open-loop low speed running. It can drive only AC asynchronous motor **without the need of an encoder.**
- Using high-performance vector control technology, it supports both open loop vector control and V/F control
- It adopts the direct stop technology, with Dynamic curves generated automatically at Run time, achieving convenient and comfortable riding.
- It supports a maximum of 8 floors, 16 floor with extension and is widely applied to all type of elevators.
- It supports dedicated CANbus for Duplex Control System.
- Flexible emergency backup power; 220Vac UPS power input makes Emergency evacuation easy.
- 20 fault codes with detail information to facilitate easy diagnostics.
- It support Standard static Motor Tuning System.
- Handheld Operation Tools: Mini Keypad, to facilitate easy Commissioning.
- It support Both Auto Door and Manual Door System.
- It supports Two Side Door Opening with Individual COP and LOP.
- It supports Elevator rated speed up to 1.0 m/sec
- Anti-Roll Back Function with DC braking Function.

AD 009+ Elevator Control Card





AD EXT



Extension Card :

- With Extension 24 Stop Down Collective and 15 Stop Full Collective.
- All Button Input Output are Programmable.

Feature :

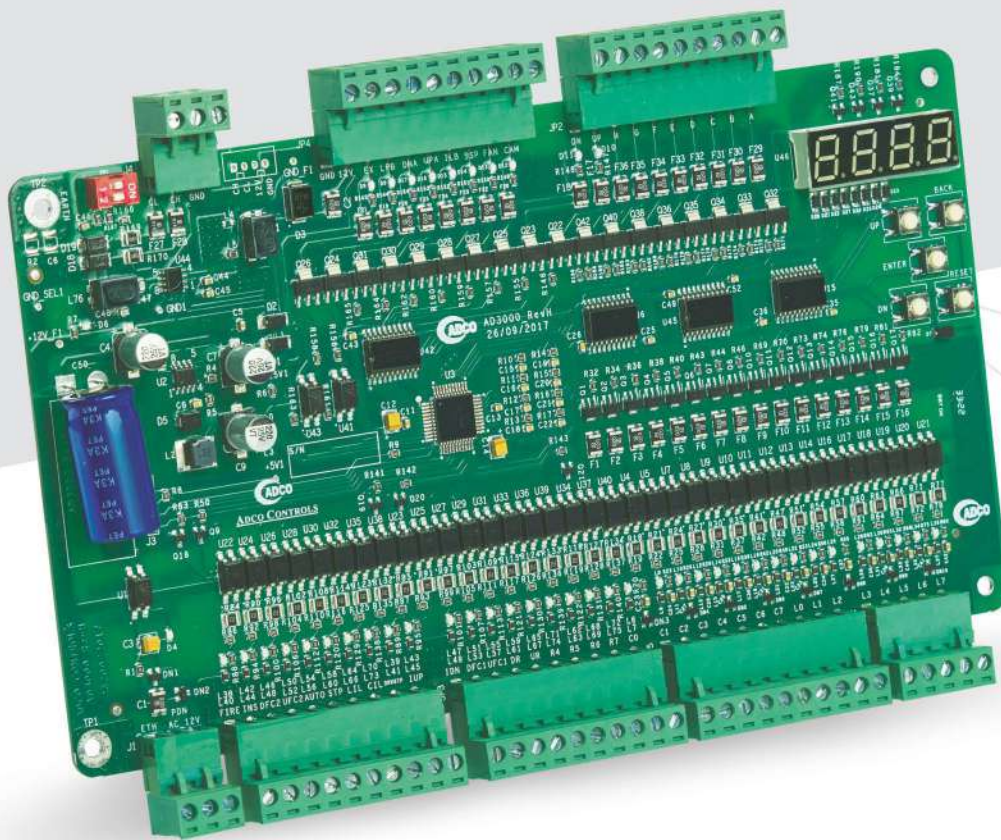
- **No of Stop:** AD009 8 Stop Down Collective and 6 Stop Collective Selective.
+ ADEXT 24 Stop Down Collective and 16 Stop Collective Selective.
- On-board Relay Card with Final Safety with Relay. So no External Relay Card Require.
- On-board Analog Output, which can be used with Drive Analog input for better smooth riding. And eliminating relay output.
- Operations: Regular V3F , Down Collective V3F and Collective Selective V3F also suitable for Auto Door , Double Door (Two Side Opening)
- Duplex Operation using just two Wire communication no extra hardware require.
- Speed: Up to 2 m/sec.
- All system parameters can be adjusted by using 4 buttons and two seven segment placed on the card. Call Register LED and Call Push Button are on single wire
- On board Seven Segment Display
- Full Serial and Semi Serial Option Can be done.
- All the Input and Output are Opto-isolated and available in both 12VDC and 24VDC.
- All the Input and Output are carrying LED indication on board.
- An error code are display on display as well as it is memories in the card.
- Each floor can be named by an alphanumeric character (L, P, E, F, H, b, o, 0, 1, 2, 3.....).
- 7-segment and signalization outputs are short-circuiting protected. In a short circuit case the concerned output is shut down until problem is removed.
- It also detect the landing lock short at particular floor
- Power down memory, in case of power fail it will reach at nearest floor instead of going to correction end
- Only 15 cables are enough for system to work by using Semi Serial car connection (ADCTB and ADCCB Card) Which reduces labour and cable costs;



AD 3000

Hydraulic & Traction
MR Geared





Feature :

- 8 Stop Down Collective and 6 Stop Collective
- Selective With AD9007 24 Stop Down Collective and 16 Stop Collective Selective.
- With AD9006 15 Stop Down Collective and 11 Stop Collective Selective.
- Operations Traction : Regular V3F, Down Collective V3F and Collective Selective V3F.
- Operations Hydraulic : Hydraulic Manual Door, Hydraulic Auto Door, Hydraulic Double Auto Door 2 Valve, 3 Valve and 4 Valve Configuration.
- Speed : Up to 2 m/sec.
- All system parameters can be adjusted by using 5 buttons and 4 Seven Segment placed on the card.
- Call Register LED and Call Push Button are on single wire.
- On board Seven Segment Display.
- Serial COP Card (AD_CTB) attachment using CAN bus.
- All the Input and Output are Opto-isolated and available in both 12VDC and 24VDC.
- All the Input and Output are carrying LED indication on board.
- An error code are display on display as well as it is memories in the card.
- Each floor can be named by an alphanumeric character (L, P, E, F, H, b, o, 0, 1, 2, 3.....).
- 7-segment and signalization outputs are short-circuiting protected. In a short circuit case the concerned output is shut down until problem is removed.
- It also detect the landing lock short at particular floor.
- Also detect lock short in Auto Door. if Door not open within predefined time
- Power down memory, in case of power fail it will reach at nearest floor instead of going to correction end.
- Only 15 cables are enough for system to work by using serial car connection (AD_CTB) which reduces labor and cable costs.
- Using this Up to 24 Stop Full Serial just 4 Wire Communication can be done easily.
- PCBs are solder in Fully Automatic Pick & Place Robotic Machine.
- Which will remove all human error.
- 4 Digit Display on board make easier to program parameter and view an error code.
- Using CAN bus you can Program and Monitor the mother board with External Graphical Program Tool

AD 007+ Traction MR Geared



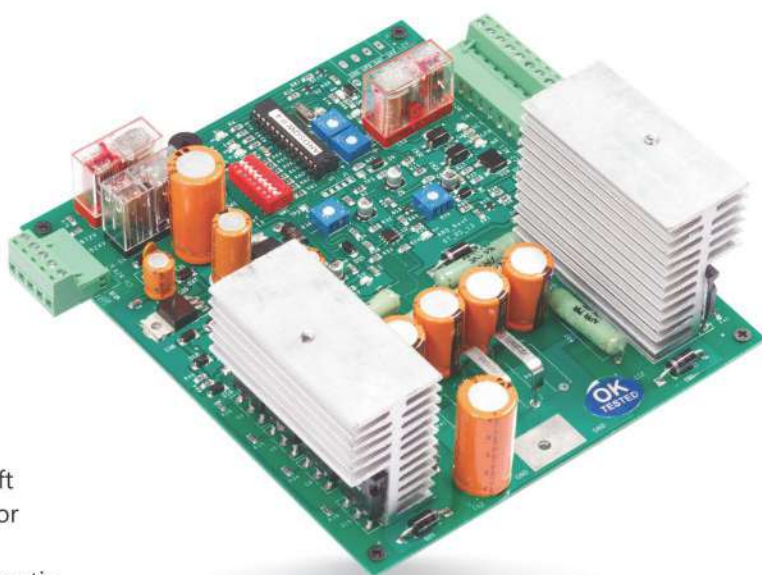
Feature :

- No of Stop: 8 Stop Down Collective.
- Operations: Manual Door Down Collective
V3F Speed: Up to 1 m/sec.
- On board Seven Segment Display.
- All the Input and Output are Opto-isolated and available in both 12VDC and 24VDC.
- All the Input and Output are carrying LED indication on board.
- An error code are display on display.
- Each floor can be named by an alphanumeric character (L, P, E, F, H, b, o, 0, 1, 2, 3.....).
- 7-segment and signalization outputs are short-circuiting protected. In a short circuit case the concerned output is shut down until problem is removed.
- It also detect the landing lock short at particular floor.
- PCBs are solder in Fully Automatic Pick & Place Robotic Machine. Which will remove all human error.





Automatic Rescue Device



Feature :

- In case of a main power supply failure, the lift stopped between two floors is moved to floor level, the automatic door is opened and passengers are out safely, For lifts with automatic door, in case of a main power supply failure at floor level, the door is remain opened ,

Technical Specification:

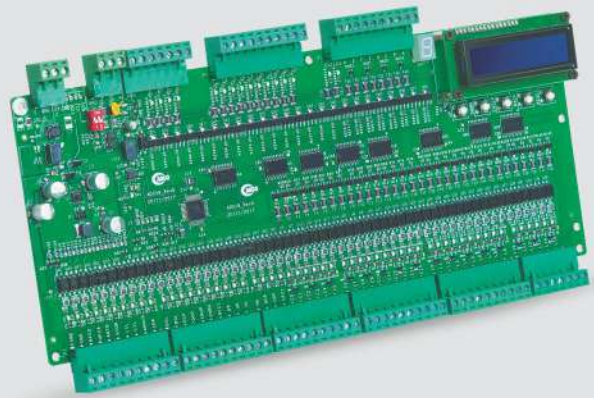
- Input Voltage: Three Phase 440VAC, 50Hz Pure Sine Wave Main Line Voltage
- Output Voltage: Two Phase 440VAC, 50Hz Modified Square wave and pure Sine Wave output option available.
- Battery Voltage: 72V (6 Battery of 12V) and Amp depend upon the Motor Rating

Technical Specification:

- This device is suitable for those buildings without an emergency power source Allocated for the elevator.
- Also have smart Battery Charger for 72V (6 Battery of 12V) For Higher HP Motor they have also Current Sensor which detect the lowest current direction of the motor, this is optional.
- Overload and Overcurrent Protection. Start Time and Travel Time Also Adjustable.

AD 019

- 16 Stop Down Collective and 11 Stop Collective Selective.
- With AD9007 32 Stop Down Collective and 24 Stop Collective Selective.



AD 009

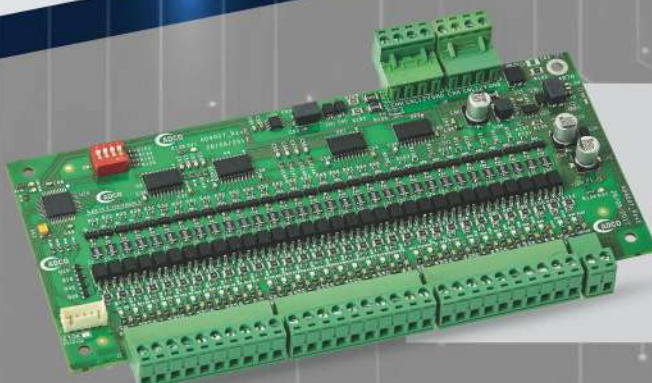
- 8 Stop Down Collective and 6 Stop Collective Selective With AD9007 24 Stop Down Collective and 16 Stop Collective Selective.

AD 9000

- Operations: Regular V3F, Down Collective V3F and Collective Selective.
- V3F also suitable for Auto Door, Double Door (Two Side Opening).
- Duplex Operation using just two Wire communication no extra hardware require.
- Speed: Up to 2 m/sec.
- 2 CAN BUS serial ports.

Serial Communication

No of Stop: 48

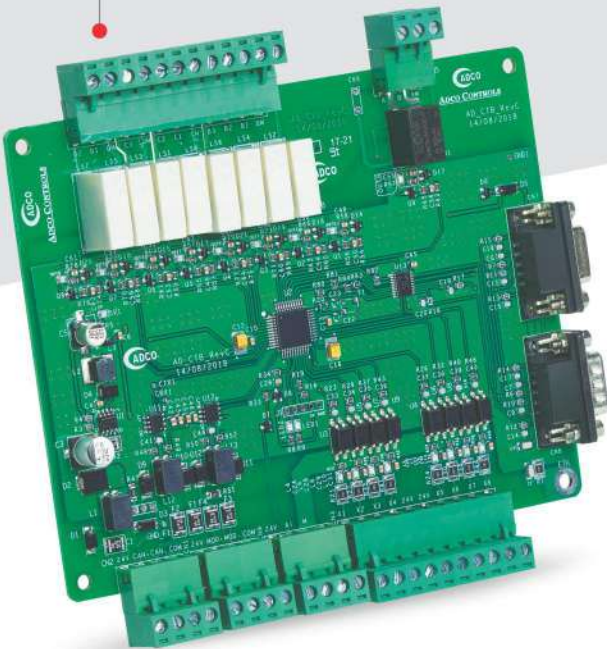


AD 9007

32 Digital Input and Output For Car Call push button and LED.

SERIAL COP CARD

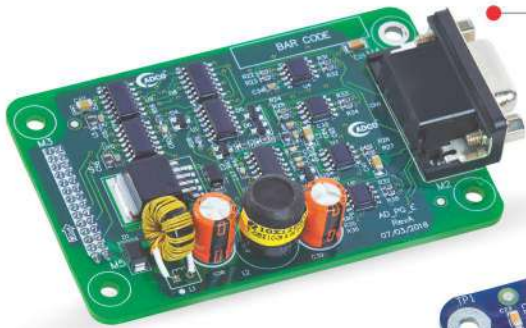
AD CTB



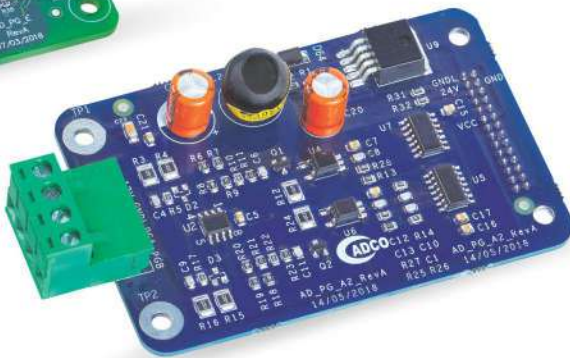
AD CCB



AD PG-E



AD PG-A2



AD PG-E1



AD Over Load System

Feature :

- Capable of measuring up to 5 tons of weight (Cabin weight + structure + payload).
- Two relay outputs available, one for full load and other for over load.
- Easily operates on 230 volt AC supply
- Simple Programming mode for weight setting is available.
- Seven segment display is available for weight readings.
- Lift load detection through measurement of stress of traction ropes.
- Low weight and compact in size .
- Easily installable on the cabin.



ADCO

Door Drives & Door Motor

Technical Specification

Door Motor

- 24V PMDC Motor (Variants: 60W, 100W, Power Capacity depends on the size of the doors).
- Planetary Geared & Worm Geared Variants are available.
- Motor equipped with high resolution Encoder.

Door Drive

- Auto-Learning for the span of the door travel distance.
- Curved Profile for the operation of door opening & door closing, doesn't require to set any other extra parameters, like; Fast Speed, Slow Speed, Slow Located Distance etc.
- Use motor equipped encoder, so smooth start & stop function without extra limit proxy switches.
- Door Opened & Door Closed acknowledgment signals through Relay output.



Features

- Unit has Compact Door Drive with PMDC Motor for Auto Door Lift.
- Unit works with any kind of doors.
- It senses the opening span automatically at the time of setup / installation.



Mp3

Voice Announcer



Simple Voice Announcer

Monostable Switch & Bistable Switch



Door Certain Sensor

BUZZER INBUILT.

Relay output	: 1A, 230VAC/2A,30VDC.
Operating Temp.	: 20°C to 85°C
Size	: 154x50x31 mm
Sensor	: 32 Pairs
Beam	: 154
Response time	: 61ms
Highest beam	: 1860mm
Lowest beam	: 25mm
Protection Distance	: 0 to 5 Meter

PRINCIPLE:

The System include the emitter and receiver, power supply box, flexible cables. When the power is turned on, there will generate infrared screen between two doors. If any ray of infrared is blocked by any object or person, the door stops closing immediately and open to protect the people.

Easy to install all the wiring is pre Harness just plug and play.



Open

Close





We have evolved the best conceptual global solutions for elevators.

150,000 Installations Worldwide



ADCO CONTROLS

Mfg. of Elevator Control Systems

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