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# The **CLAYBOABB III controller**





# New modular PCBs with cover box

Each interface PCB is placed in a vertical box with front cover

- Clean and protected wirings
- Easy location of modules
- Wiring diagrams replicated near terminal blocks or connectors

- Electronics with 32 bit microprocessor
- CAN Open serial transmission
- New software with extended features
- Quicker software updates with SecureDigital memory card
- Ready for remote monitoring via fixed / GPRS phone line
- Two MRL versions



# Fully programmable!

With its large 4-lines LCD screen, the *Playpad* programming module allows to configure all parameters of both the controller and the Inverter

The *Playpad* can also be connected directly to the top of car module. In this way, car stopping accuracy can be fine-tuned directly from inside the car (only with DMG encoder)



F01	Speed command	Selezione del tipo di comando per la variazione della velocità	⊴ ⊳ ▲ ♥		
F03	mamic Inv	verter Control		Seleziona campo Cambio valore	
dir Ne acc	ectly from the w Playboard celeration / de	е <i>наураа.</i> III software allows for total co eceleration settings and cont	ontro inuo	l of inverter us car speed	
C07	Creep Speed			Seleziona campo Cambio valore	
C10	Middle Speed	Velocità in ispezione (solo con sistema di conteggio FAI/FAS)		Seleziona campo Cambio valore	
			.∢⊳		
P01			1.7		



#### Encoder Positioning System

New DMG optical incremental encoder allows an extremely accurate control of car position. 2,5mm reading accuracy is passed on to the Playboard controller.

The system consists of two easy-to-install pulleys in the shaft and a rope fixed to the car. Top/bottom magnetic limit switches provide the reset signal: at each passage, the information provided by the Encoder is compared with the switch signal to correct discrepancies.

#### Easy Fine-tuning!

Thanks to the signal accuracy of DMG Encoder, the Playboard V3 controller automatically performs a self-learning procedure of floor positions.

Floor stopping accuracy is then adjusted through the *Playpad* connected to the top of car, without any further intervention in the shaft!





### Integrated Emergency System

In case of black out, the Integrated Emergency module automatically re-powers both the controller and the inverter and moves the car down to the nearest floor at low speed. When the floor is reached, doors are opened.

The system runs with 8 12V 7,2Ah batteries. Battery charge is controlled via software.

# Landing connections : Remote monitoring : Options





#### **BDU** interface

BDU serial interface allows to connect landing call buttons, serial indicators and direction arrows.

It can be easily configured and assigned a specific floor.



## Independent next direction arrows

A simple magnet can be used to permanently assign the floor designation to the indicator: in such way, next direction arrow will appear only at the floor where the car is about to stop.

#### Remote monitoring

The Playboard is able to transmit from far all errors in real time using the Telemaco GPRS module. The remote monitoring software Telemaco allows to check and manage the status and the configuration of the system through a normal PC connected on Internet. Using the remote monitoring software AmigoLink it is possible to check the alarms and to manage the status of telephone Amigo II.



# **Options**

Together with the traditional version for machine room installation, the Playboard III controller is also available in two Machine Room Less versions:

- in a box 400x2145x320 (LxHxD) to be positioned near one of the landing doors
- · in a shaft box, with the command board inserted on the door jamb







"All in One" Floor single cabinet

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# **Componenti di sala macchine**



Cablaggio sala macchine QSM.C



Quadro elettrico DTU QSM.DTU



Pulsantiera manovra di emergenza QSM.P3PME

# Componenti di tetto cabina



Scatola TOC standard QTC.TOCB



**Zona porte** QTC.P3RZP2



Pulsantiera di ispezione per TOC *QTC.РЗРМС* 

Kit AGB/AGH



**Stop secondo accesso** QTC.P3PSC



Kit AGB/AGH magnetico QTC.P3FCRM



Kit encoder a cordino QVA.ENC + QVA.CORD060 (60 mt.) QVA.CORD120 (120 mt.)

Kit balaustra Kit grembiule retrattile retrattile QVA.GARD QVA.BALU





Kit conteggio ottico FAI/FAS

Kit cavi tetto cabina

QTC.P3CTOC\_

ARME

Sirena allarme

precablata per TOC

Kit cavi flessibili 20÷140 QVA.C16P20-...-140





Kit conteggio magnetico FAI/FAS QTC.P3FFM



# PITAGORA III

# **Shaft components**



*Final limit switches kit QVA.P3EXE* • *QVA.P3EXH* 



**Shaft pit stop switch** QVA.P3PSC1



Shaft pit stop switch + 220V plug QVA.P3PSC3



Shaft conduit QVA.CAN



**Safety chain** QVA.P3S





# **Pre-wired Car Operating Panels**



## **Technical features**

- Traction 2 speeds, Hydraulic direct, Hydraulic star-triangle, Soft Starter
- Inverter open or close loop up to 22 kW
- Speed: up to 1,6 m/s (magnetic or optical FAI/FAS counting) or 2,0 m/s (with DMG encoder)
- Power supply: 220 ÷ 415V and 380 ÷ 415V
- Current: 18A ÷ 40A
- SAPB, down collective, full collective
- Simplex to Quadruplex (without additional modules if floor serial connection)
- Tradition wiring or pre-wired PITAGORA wiring
- Up to 16 floors with traditional wiring, 28 floors with Pitagora wiring and landing serial interfaces (BDU)
- Safety chain 110V AC (controlled on 4 different points), 48V DC and 110V DC
- Battery 12V at 1,2Ah with integrated battery charger
- Door type: manual, automatic, regulated, independent
- · Dimensions (LxHxD): 600x720x320 · 600x320 · 600x1020x320 · MRL 400x21/15x320

#### **Main functions**

- Re-leveling with open or closed doors
- Anticipated door opening
- Fire-fighters operation (DM 15/09/2005 or EN81-72), Priority operation, Out of Service operation
- Emergency operation integrated with batteries
- · Full load control, overload control, temperature control, phase sequence control
- Fire sensors inputs
- Retiring cam control
- Car illumination time-limited or permanent
- Photocell NO/NC contact control
- · Slowdown zone regulation different for each floor (for FAI/FAS counting only)
- Auto-learning of floor level and slowdown zone (with Encoder only)
- Short distance between floors
- Double entrance control
- Car parking programmable (week, hours and days)
- · Remote monitoring of the installation through standard telephone line or GSM/GPRS

#### Segnalizations and diagnostic

- · Serial output for indicator (alphanumeric charracters programmable for each floor)
- · Segnalization present/busy/call registered permanently lighted or flashing
- Out of Service operation and signalization
- · Car and landing gong with next direction acoustic signal
- · Car and landing direction arrows and landing next direction arrows
- Landing alarm acoustic signal
- Programming module with LCD screen and 6 buttons keyboard
- Visualisation on LCD of I/Os and of the last 60 faults detected
- Over 50 different faults detected



#### DMG SpA

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