

Quick installation guide - Gearless version English v 1.2



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LEGEND



Reference regulation



Traction lifts

Hydraulic lifts





INSTALLATION

The control panel must be installed internally with a degree of pollution of not more than 2. The cabinet has an IP2X degree of protection.

The controller setup and maintenance has to be made by qualified technicians after having carefully read the documentations and electrical schemes provided with the controller.

Protection toward indirect contacts has to be realized through magnetothermic and differential switches and a grounding system. Unless otherwise specified, the customer is requested to provide these protections.

Please refer to the wiring diagram supplied with the control panel for the following protection circuits:

- magnetotermic protection of the motor circuit
- magnetotermic protection of the safety circuit
- protection fuses of all other circuits

Protection measures against electric shock:

- The control panel case of the is metallic and must be grounded as indicated in the circuit diagram supplied with the control panel.

- The command and control circuits (24V) are galvanically separated from the main power supply as indicated in the wiring diagram supplied with the control panel.

- The safety circuit is galvanically separated from the main power supply as indicated in the wiring diagram supplied with the control panel.

MAINTENANCE

For control panel's maintenance, please refer to the manual supplied with the control panel. During periodic inspections of the system, check the alarm circuits' battery status of the and the floor return circuit (if present).

Refer to the packaging instructions to handle and move the control panel.

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• The information in this manual may vary without notice for any enhancements.



ADDITIONAL INFO ABOUT SECU MODULE

Description

SECU module is an electronic device installed in DMG Junior 4.0 lift control panel that allows to check the status of 7 point of the safety chain of the lift.

The main function of this module is to guarantee galvanic isolation between the safety circuit and the electronic circuits of the control panel.

Only one version of this module is available:

- SECU.24 for control panel with safety circuit powered at 24 V DC [-15/+10%]

Installation

the SECU.24 module is supplied by DMG already installed and connected in the Junior 4.0 control panel. No intervention by the installer is required during commissioning of the control panel.

The common of the connections to the electric safety chain is traced on the printed circuit board in such way, that the common to the contactors or relay-contactors will switch off at interruption of the common (CBC(1)/CBC(9)).

Working conditions

The SECU.24 module is installed in a metal earthed cabinet with minimum IP20 protection and fixed on a DIN rail at following service condition:

- Indoor Use.
- Temperature: -5°C / +40°C.

- Relative Humidity: must not exceed 50% at a max temperature of +40°C; may increase at lower temperatures, for example, can be 90% at 20°C.

Maintenance

In the event of a fault, the device must be replaced, it must not be opened or repaired.



SYSTEM LAYOUT





SYSTEM COMPONENTS

TOP OF CAR





QJ4.CTBOXS CAR box



QJ4.CTPS Top of cabin stop



QJ0.CTSTI Car INTERFACE board + 7-SEC board



QJ4.SHEX1/2 Final limit switch kit



QJ4.C28CS Travelling cable kit (x m)



QJ4.CTPM Inspection box



QJ4.CTKIMP.H5 / QJ4.CTKIMP.H4 (without AGH) Magnetic readers positioning system + door zone/relevelling + top/bottom reset proximity switches and reset magnets



QJ4.CTPSTISP Inspection box + Stop



QJ4.SHCAL 1 magnet



QJ4.SKLED_F10 / F20 + QJ4.SKLED V Shaft illumination kit (10 / 20 m)



QJ4.SHP_/QJ4.SHC_ Safety chain (doors / pit)



QJ4.SHPSH Pit stop

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C40.BDU Floor interface (BDU)





SHAFT







CABINET INSTALLATION







MAINS SUPPLY CONNECTION







MOTOR OUTPUT CONNECTION





FIXING THE TRAVELLING CABLE

CONNECTING THE TRAVELLING CABLE TO THE CAR BOARD





TEMPORARY OPERATIONS











CONNECTING THE SAFETY CHAIN

IN THE CAR





INSTALLATION OF SAFETY CHAIN

14]





CONNECTING CAR DOORS OPERATOR











CONNECTING LIGHT BARRIERS (NO CAR DOORS)





CAR POSITION READING SYSTEM





INSTALLING MAGNETS AND MAGNETIC READERS







2

3







230V AC





CONNECTING THE INSPECTION BOX







INSTALLING THE CAR PANEL



DISPLAY & INDICATORS



CALL / SERVICE BUTTONS





INSTALLING THE FLOOR PANELS

Floor serial interface (BDU)





INSTALLING THE EMERGENCY PHONE







NORMAL MODE & SYSTEM ADJUSTMENTS

SWITCH TO NORMAL SERVICE MODE





ADJUSTING FLOOR STOPPING ACCURACY





CONNECTIVITY (FUSION APP)



Before even seeing how to connect and interact with the installed device, you need to access the Fusion Dashboard cloud software. https://fusiondashboard.azurewebsites.net/



On the Fusion Dashboard cloud, register the company, buildings, devices and operational technicians, as indicated in the video tutorials on the DMG DIDO site on the "Connectivity and Fusion app" page. https://dido.dmg.it/knowledge-base/connectivity-fusion-

app/

Connection mode

W-Fi connectivity to smartphones comes as a standard for all Junior 4.0 controllers, at no extra costs. To enable connectivity and benefits from the advantage of real-time monitoring of the lift, two solutions are available:



LOCAL connections

The local connection carry out on the installation site of the Pitagora system, via Wi-Fi HotSpot located in the TOC board and in the Junior 4.0.

Before connecting locally to the TOC and Playpad 4.0 devices via the Fusion app (described below), it is necessary to check that the Wi-Fi signal is enabled on these 2 devices.

00000000 P		SED SE1 SE2 SE3 SE4 SE5 SE6 DEF		Impostazioni di rete		
- CONTROLLER 4.0 - DMG S.p.A. S/N 99999_V4_19_1 2.8.9 - [DEMO_MOCK]	\rangle \bigcirc \rangle	DMG CONTROLLER NS: 999999_19_1 DMG S.p.A.	$> \bigcirc >$	WiFi TOC	Yes 🗹	
TENERE PREMUTO ESC S SECONDI PER USCIRE DA	ESC	Stato: Ispezione	ОК	Autospegnimento WiFi TOC	Mai 🗹	
	≜	Corse: 86543867 Piano: 1	≜	WiFi PlayPad	Yes √	
	$\langle \cdot \rangle$	STRUMENTI RETE INGTALL, STOUREZZA	$\langle \rangle$	Autospegnimento WiFi PlayPad	Mai 🖌	
	5 sec.					

Wi-Fi hotspot must be enabled and the auto-off time of the Wi-Fi signal on the device (TOC / Playpad 4.0) must be sufficient for local operations.



REMOTE connections

The remote connection allows you to access the devices connected via Telemaco II 4G modem. Telemaco II 4G is supplied without a SIM; the choice of the SIM is at

discretion of the customer. Instructions for installing the Telemaco II 4G modem: https://dido.dmg.it/knowledge-base/telemaco-modem-4g-new/ Telemaco II 4G modem



Lift controller management via the Fusion app



Fusion is the application (IOS / Android) created by DMG for the direct management of compatible installed devices.

Select the type of device to

manage.

Download the Fusion app using the QR code on the side.







Start the FUSION app and login when the smartphone is still connected to internet.

You can reach devices locally without logging in (Select "Local Connection").



Make sure you are connected to the controller's Wi-Fi network:

In the network settings of the smartphone, search and select the Wi-Fi network of the device to connect to (Playpad / TOC): - DMG PLP xxx > PLAYPAD

The login credentials are provided by DMG together with the documentation supplied with the product. Finally search for devices (press "Scan") and select the device to manage.



Remote connection



You can now choose the device to manage from either a device



list or a device map.



0 0 0 0 0 0 0 50 51 52 53 51 55



BYPASS DOOR DOOR

JUNIOR 4.0

USE OF CONTROL PANEL

F MR



Overspeed governor test



Door bypass LED Door zone LED

Temporary / normal service mode selector

Brake test

Ascent / descent controls



RESCUE OPERATION FOR TRACTION LIFTS



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FINAL LIMIT SWITCH TEST

JUNIOR 4.0

RE-LEVELLING TEST

TEST AND MEASUREMENTS







BALANCING SYSTEM MEASUREMENT



MOTOR RUN TIME TEST





BRAKE TEST







ROPES CREEP TEST





OVERSPEED GOVERNOR TEST





BASIC TROUBLESHOOTING

Follow this first-level procedure to detect and remove the most common faults:

Check Diagnostic LEDs (VVVF unit)



ENTER





•	Err	or	Х	of	ΧХ	total.	
	-						

- Code/description error.
- Car position when the fault was detected.
- Number of repetitions of the same error.
- Additional code.
 Date and time of last detection.
- Date and time of last detection
 (*) If the error is still estive
- (*) If the error is still active.

This Menu lists the last faults stored into the internal memory of the controller. All faults are described in the **Troubleshooting guide**. See leaflet on the back of this guide.

WARNING: In case of black out, the internal memory is saved only if the battery is connected.



< Faults >

Perform the RESCUE OPERATION as shown on the following page ------>>>



ADVANCED SETTINGS





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