

Comfort 220, 250, 252

Operator Systems for Garage Doors



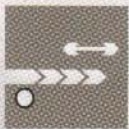
FULL-SERVICE



OPERATOR SYSTEMS
FOR GARAGE DOORS



OPERATOR SYSTEMS
FOR SECTIONAL DOORS



OPERATOR SYSTEMS
FOR SLIDING GATES



OPERATOR SYSTEMS
FOR HINGED GATES



OPERATOR SYSTEMS
FOR ROLLER SHUTTERS



PARK BARRIER
SYSTEMS



ELECTRONIC
CONTROL UNITS



PRODUCT SERVICE



ACCESSORIES

Comfort 220

The perfect concept for comfort and safety

Marantec

Door operators ► automatically the best choice

The Idea

The perfect concept Comfort operator systems for garage doors.

With these three Comfort operator systems we have realized the concept, that meets all up-to-date demands for garage door operators in an intelligent and forward-looking way. They offer the perfect solution for any site requirement: differently powered motors and different extension possibilities. Operation and equipment are always very comfortable. Highest safety and optimal quality guarantee a perfect functionality. With leading technology that corresponds to the latest standards. Absolutely reliable.

Comfort operator systems by Marantec:
automatically the best!

Comfort 220, 250, 252

Start softly!



A very comfortable feature of the Comfort operator systems is their ability not to develop their full power completely at once, but to start the door travel softly and to stop softly, too. For both travel directions. This is comparable to the

traction control in cars, which also develops only the necessary power to get the optimum drive.

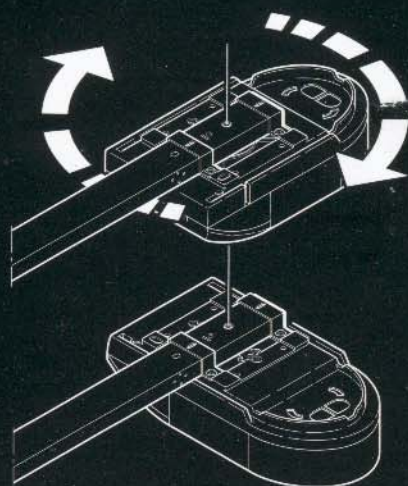
Soft start and soft stop function guarantee an incredibly quiet door travel and this feature of the Comfort operator systems is appreciated by all neighbours to the door area. At daytime. And as well at night.

Anti-lock braking system in a door operator?



A door does not make an emergency stop, or does it? The patented automatic cut-out of the Comfort operator systems reacts immediately on smallest obstacles, which might disturb the door travel. And the door is reversed

immediately by 20 cm. The Marantec automatic cut-out is put into practice by the programmable, electronic and self-learning power limitation. Similar to the anti-lock braking system it helps to handle critical situations in an optimal way. With permanent control. And it works perfectly. Always.



All advantages at a glance

- incredibly quiet, electronically controlled soft starts and soft stops
- automatic cut-out and self-learning power limitation
- innovative Marantec reference point technique
- push-open security device
- economy mode
- well-known, proven operation concept
- various installation possibilities

Perfect orientation in every door travel phase!



Just as the navigation system GPS supports the orientation in traffic, the Marantec control always knows exactly, how and in which direction the door moves. The electronic Marantec reference point technique monitors permanently the door travel. Every time. Exactly to the millimeter. The door is not over-strained. Wear is minimized. Service life is increased.

Safe and sturdy in every situation!



Even if the door is closed. This is important, if an unauthorized person would like to enter, for example using force. Then the permanent electronically monitored push-open security device does a good job. Similar to the electronic stabilization program ESP in modern cars, the Comfort operator systems offer precise interventions in the motor management. Highest security. And stability. In every phase.

Optimal reduction of power consumption!



In every situation. And as well in stand-by mode. Comparable to a 3-litre car motor we have developed a new technique for the operator's stand-by mode, which reduces the power consumption by more than 60%. This is very good.

For environment. And for your purse.

Digital remote controls

Digital 212 midi hand transmitter, 2-channel
Digital 221 mini hand transmitter, 1-channel
Digital 231 micro hand transmitter, 1-channel

Command 211

Radio code keypad for the wireless operation of the Comfort operator systems from a central place outside.

Special 614

Photocell for additional safety in the operating range of the door. It is necessary, if automatic timer function is activated and for doors in public areas!

Command elements for access

Command 121 radio interior pushbutton
Command 111, 112, 113, 114 interior keypads
Command 201, 202 code keypads (outside)
Command 311, 314, 411 key switches (outside)

Special emergency release

Release kits for all common garage doors and garages without second entry.

Accessories



Comfort during installation and initial operation, too

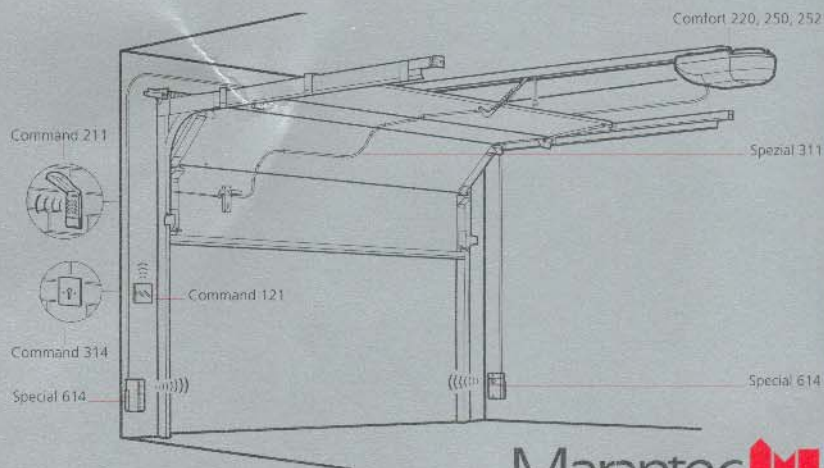
Quick and easy installation of the whole operator system.

The Marantec plug-in connections help to save time and give safe connection of all components.

Operator booms are available in three different lengths (as well as separated booms). They can be combined with the motor unit without problems and are delivered separately. This minimizes storing.

The initial operation is also easy-to-handle:

The menu-guided programming, step by step, is built up logically and easy to operate - here you will recognize the familiar components of the existing Marantec product range.



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Door operators » automatically the best choice



Electrical Data

	220	250	252	
Nominal voltage	230	230	230	V
Nominal frequency	50	50	50	Hz
Current input	1,1	1,1	1,1	A
Power consumption operation	0,25	0,25	0,25	KW
Power consumption stand-by	< 4	< 4	< 4	W
Operating mode (connection period)	KB 2	KB 2	KB 5	min.
Control voltage	24	24	24	V DC
Protection category motor unit	IP 20	IP 20	IP 20	
Protection class	I	I	I	I

Mechanical Data

	220	250	252	
Push and pull force	500	700	1000	N
Door travel speed	140	140	120	mm/sec.
Opening time (door specific)	15	15	18	sec.

General Data

Measurements motor unit	150 x 200 x 400	mm		
Weight	6,1	6,1	7,1	kg
Range of temperature	-20 to +60	°C		
Certification base	EN 12453	EN 12445		
	EN 292-1	EN 61000-3-2		
	EN 50081-1	EN 61000-3-3		
	EN 50082-1	ETS 300220		
	EN 55014	ZH494 April 89		
	EN 60335-1	VDE 0700 -238		

Supply Package

- Motor unit Comfort 220, 250 or 252
- Universal installation kit for up-and-over doors and sectional doors
- Digital 212 midi hand transmitter, 2-channel
- Digital 231 micro hand transmitter, 1-channel (only C. 250, 252)

Features / Safety Functions

Reference point technique	x
Soft start / soft stop	x
Push-open security device	x
Automatic cut-out	x
Anti-blocking device	x
Excess travel stop	x
Automatic timer function (only C. 250, 252)	x
Travel cut-out	x
Economy mode	x
Release from inside	x
Signal light connection (only C. 250, 252)	x
Connection for pushbuttons, code buttons and key switches	x
Connection possibility for actuation of garage door lighting	x
Connection for potential-free limit switch information	x
Error message	x

Accessories

Multibit remote control	x
Separate electr. aerial (433 MHz), IP 65	x
Signal light (only C. 250, 252)	x
Closing edge safety device	x
Photocell	x
Release kits	x
Door connector attachment for large and heavy sectional doors	x
Fitments for up-and-over doors and wing gates	x
Transponder systems	x
Key switches	x
Code keypads	x

SZ Toothed drive belt

Operator boom	Boom length	Length of travel	Total length
SZ 11	2960 mm	2400 mm	3180 mm
SZ 12	3180 mm	2620 mm	3400 mm
SZ 13	4090 mm	3530 mm	4310 mm

SK Roller chain

Operator boom	Boom length	Length of travel	Total length
SK 11	2960 mm	2400 mm	3180 mm
SK 12	3180 mm	2620 mm	3400 mm
SK 13	4090 mm	3530 mm	4310 mm

All booms except SZ and SK 13 are available as separated booms (not suitable for C. 252)



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