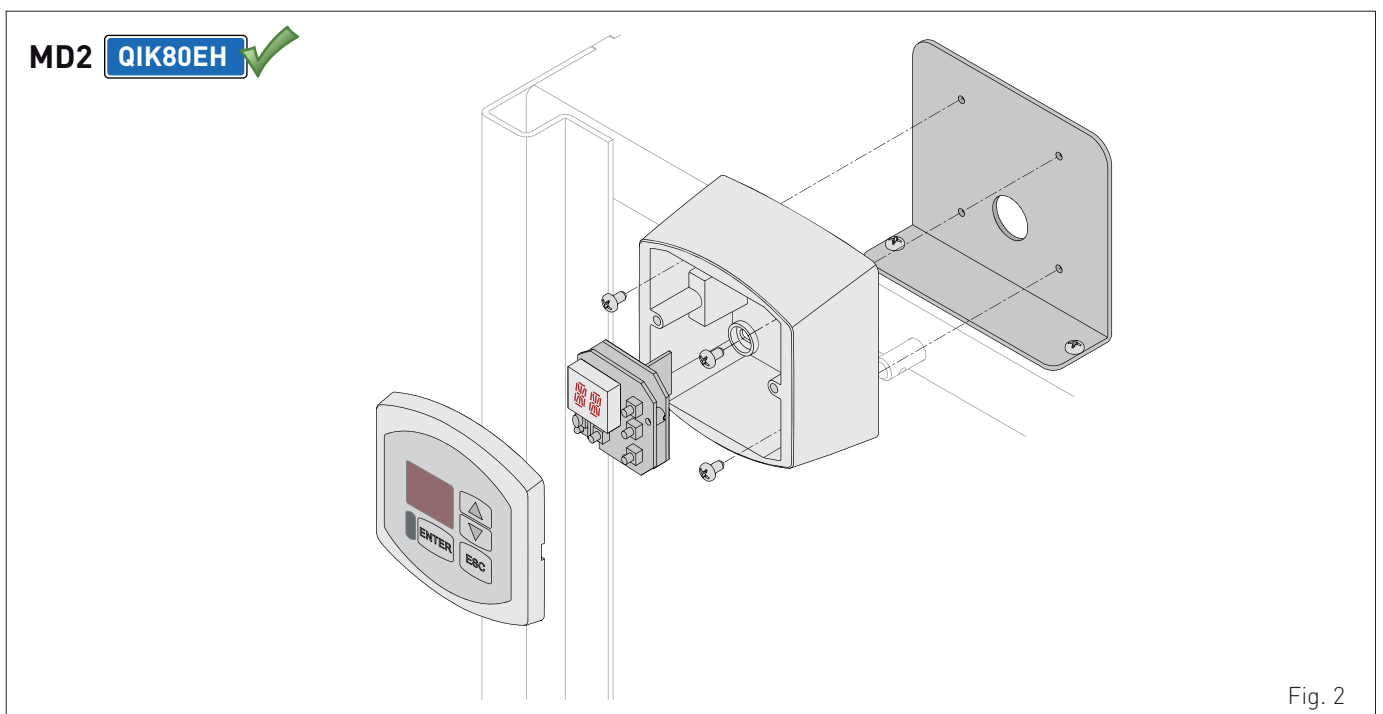
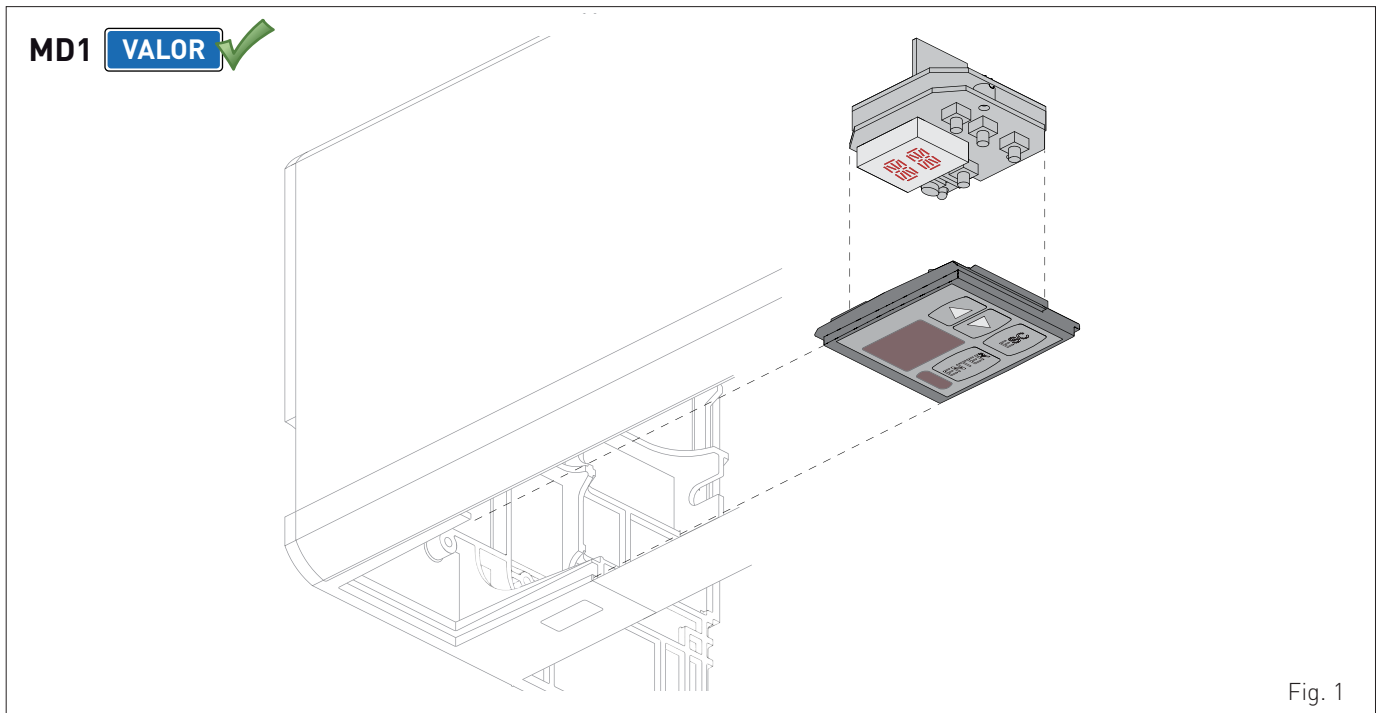


# Ditec MD1-MD2

IP1938EN

Installation manual for display module for diagnostics and advanced controls.





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## Caption



This symbol indicates instructions or notes regarding safety issues which require particular attention.



This symbol indicates informations which are useful for correct product function.



This symbol indicates instructions or notes intended for technical and expert personnel.



This symbol indicates operations not to be effected for not compromise the correct operation of the automation.




This symbol indicates options and parameters which are only available with the indicated item.




This symbol indicates options and parameters which are not available with the indicated item.

# 1. General safety precautions

 This installation manual is intended for qualified personnel only.  
Installation, electrical connections and adjustments must be performed in accordance with Good Working Methods and in compliance with applicable regulations.

Before installing the product, carefully read the instructions. Bad installation could be hazardous.

 The packaging materials (plastic, polystyrene, etc.) should not be discarded in the environment or left within reach of children, as these are a potential source of hazard.

Before installing the product, make sure it is in perfect condition.

The protective casing of the automation must be removed by qualified personnel only.

For repairs or replacements of products only original spare parts must be used. The installer shall provide all information relating to automatic, manual and emergency operation of the motorized door, and provide the user with operating instructions.

# 2. Technical data

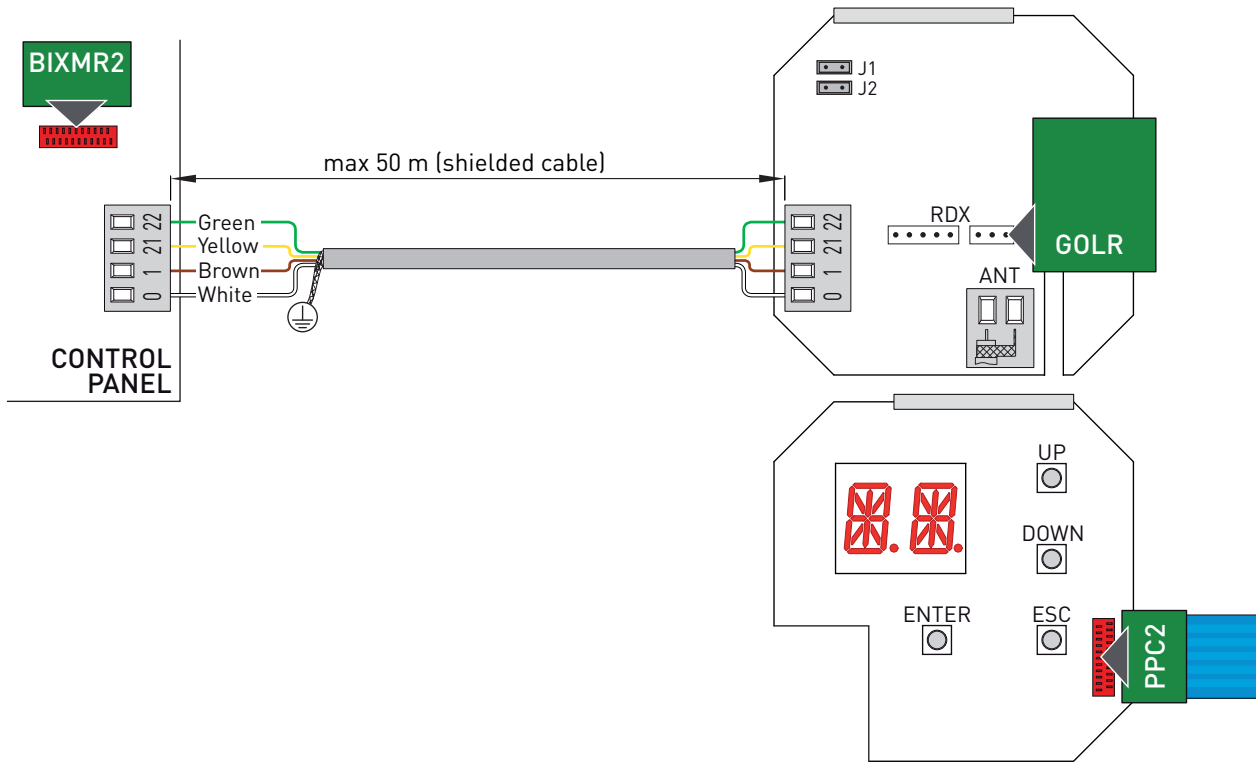
	MD1	MD2
Temperature	-20 °C - +55 °C	-20 °C - +55 °C
Degree of protection	IP20	IP33

# 3. Installation

(Fig. 1) On VALOR automations, fix the MD1 display module as prearranged on the automation head, or (alternatively) using the MDA support near the automation itself.

(Fig. 2) On QIK80EH automations, fix the MD2 display module as prearranged inside the barrier cabinet using the bracket supplied, or (alternatively) near the automation itself.

## 4. Electrical connections



Make the electrical connections as shown in the figure.



**WARNING:** after having connected the display module to the control panel, turn on the power and wait 30 s for auto-configuration of the display module and recognition of the automation.

The MD1-MD2 display module has a housing for a plug-in card, such as GOLR radio receiver. If present, the GOLR radio receiver must be installed on the MD1-MD2 display module.





**WARNING:** the plug-in cards must be inserted and removed with the power supply disconnected.



**WARNING:** do not connect storage modules BIXMR2 or BIXMR.

### 4.1 Use method selection



	OFF 	ON 
<b>J1</b>	Visualization mode. It is only possible to visualize the values and parameters present.	Maintenance mode. It is possible to visualise and modify the values and parameters present. The entry in maintenance mode is indicated by the permanent switching on of the right-hand point.
<b>J2</b>	FUTURE USE	

## 5. Commands



NOTE: the pressure on the keys can be quick (less than 2 s) or prolonged (longer than 2 s). Unless specified otherwise, quick pressure is intended.  
To confirm the setting of a parameter, prolonged pressure is necessary.

### 5.1 Switching on and off

The procedure to switch on the display is as follows:

- press the ENTER key



- start of display functioning check



- visualization of first level menu



The procedure to switch off the display is as follows:

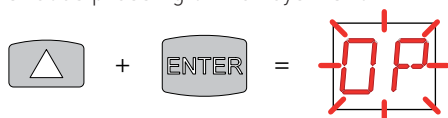
- press the ESC key and keep it pressed



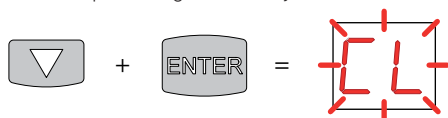
NOTE: the display switches off automatically after 60 s of inactivity.



### 5.2 Key combinations

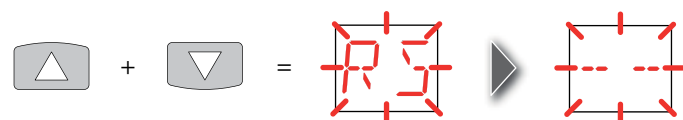
The simultaneous pressing of the keys  and ENTER performs an opening command.



The simultaneous pressing of the keys  and ENTER performs a closing command.



The simultaneous pressing of the keys  and  performs a POWER RESET command. (Interruption of the power supply and restart of the automation).



## 6. Menu








### 6.1 Main menu

- use the keys ▲ and ▼ to select the required function



- press the ENTER key to confirm



Display	Description
	<b>BC - Basic Configurations.</b> The menu allows to visualize and modify the main settings of the control panel.
	<b>BA - Basic Adjustments.</b> The menu allows to visualize and modify the main adjustments of the control panel.
	<b>RO - Radio Operations.</b> The menu allows to manage the radio operations of the control panel.
	<b>SF - Special Functions.</b> The menu allows to set the password and manage the special functions in the control panel.
	<b>CC - Cycles Counter.</b> The menu allows to visualize the number of operations carried out by the automation, and manage the maintenance interventions.
	<b>EM - Energy Management.</b> The menu allows you to manage the use of the batteries.
	<b>AP - Advanced Parameters.</b> The menu allows to visualize and modify the advanced settings and adjustments of the control panel.

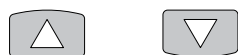
After confirming the selection, you access the second level menu.



NOTE: it is possible that, owing to the type of automation and control panel, certain menus are not available.

## 6.2 Second level menu - BC (Basic Configurations)

- use the keys ▲ and ▼ to select the required function



- press the ENTER key to confirm



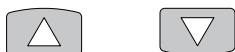
Display	Application	Description		
AC		<b>AC - Enabling of automatic closing.</b> OF - Disabled ON - Enabled	OF	ON
CS		<b>C5 - Step-by-step/opening command operation.</b> 1-5 - Step-by-step 1-3 - Opening	1-5	1-3
RM		<b>RM - Radio receiver operation.</b> 1-5 - Step-by-step 1-3 - Opening	1-5	1-3
OD		<b>OD - Opening direction selection.</b> LF - Opens towards left. RT - Opens towards right. The opening direction is intended by viewing the automation from the side being examined.	LF	RT
SS		<b>SS - Selection of automation status at power on.</b> OP - Open CL - Closed Indicates how the control panel considers automation when powered up or after a POWER RESET command.	OP	CL
SO		<b>SO - Enabling reversal safety switch function.</b> OF - Disabled ON - Enabled When enabled (ON) with the automation blocked, if the contact 1-8 is open, any operation is impossible. When disabled (OF) with the automation blocked, if the contact 1-8 is open, it is possible to activate the opening operation.	OF	ON
NI		<b>NI - Enabling of NIO electronic antifreeze system.</b> OF - Disabled ON - Enabled When enabled (ON) it maintains the efficiency of the motors even in low temperatures. NOTE: for correct operation, the control panel must be exposed to the same ambient temperature as the motors. <b>WARNING:</b> it is necessary to set DIP5=OFF on the control panel in order to make enabling/disabling of the NIO electronic anti-freeze system available from the display module.	OF	ON
PG		Do not use	OF	ON
		<b>PG - Enabling opening control reservation with interlocked barriers.</b> OF - Disabled ON - Enabled When enabled (ON), it requests the barrier 1 opening command if barrier 2 is engaged in completing the operation.	OF	ON

**i** NOTE: it is possible that, owing to the type of automation and control panel, certain menus are not available.



## 6.3 Second level menu - BA (Basic Adjustment)

- use the keys ▲ and ▼ to select the required function




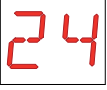





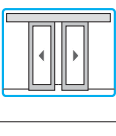



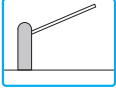

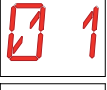

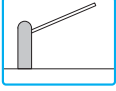
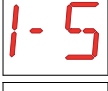


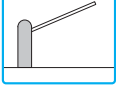






- press the ENTER key to confirm



Display	Application	Description	
RF.		<b>RF - Force adjustment. [%]</b> 00 - Minimum 99 - Maximum	
R1.		<b>R1 - Thrust on obstacles adjustment. [%]</b> The control panel is equipped with a safety device that stops motion if an obstacle is encountered during an opening operation and either stops or reverses motion during a closing operation. 00 - Minimum thrust 99 - Maximum thrust	
RP.		<b>RP - Partial opening adjustment. [%]</b> Adjusts the percentage of operation in relation to the total opening of the automation. 05 - Minimum 90 - Maximum	
VA.		<b>VA - Setting opening speed. [cm/s]</b>	MIN MAX
		Setting opening speed. [°/s] <b>i</b> NOTE: adjustment occurs with a sensitivity interval of 0.5 °/s, indicated by the switching on of the right-hand point. Example:  = 16 degrees per second [°/s] = 16,5 degrees per second [°/s]	
VC.		<b>VC - Setting closing speed. [cm/s]</b>	MIN MAX
		<b>VC - Setting closing speed. [°/s]</b> <b>i</b> NOTE: adjustment occurs with a sensitivity interval of 0.5 °/s, indicated by the switching on of the right-hand point. Example:  = 16 degrees per second [°/s] = 16,5 degrees per second [°/s]	
TC.		<b>TC - Setting automatic closing time. [s]</b> 00 - Minimum 30 - Maximum	
		<b>TC - Setting automatic closing time. [s]</b> Adjustment occurs with intervals of varying sensitivity. - from 0" to 59" with 1 second intervals; - from 1' to 2' with 10 seconds intervals.	 

Display	Application	Description		
		<b>T0 - Setting the secondary automation opening time with interlocked barriers. [s]</b> 00 - Minimum 30 - Maximum		
		<b>T5 - Setting renewal of automatic closing time after safety release. [%]</b> 00 - Minimum 99 - Maximum		
		<b>W0 - Setting opening preflashing time. [s]</b> Adjustment of the lead time for the switch-on of the flashing light, in relation to the start of the manoeuvre from a voluntary command. 00 - Minimum 05 - Maximum		
		<b>WC - Setting closing preflashing time. [s]</b> Adjustment of the lead time for the switch-on of the flashing light, in relation to the start of the manoeuvre from a voluntary command. 00 - Minimum 05 - Maximum		
		<b>US - Selecting contact C-NO use.</b> 0F - Contact C-NO always open 01 - Courtesy light or independent light 02 - Flashing light [see QIK80EH installation manual] 03 - Barrier closed signalling 04 - Barrier open signalling 05 - Barrier operating signalling 06 - Barrier opening signalling 07 - Barrier closing signalling ON - Contact C-NO always closed	    	   
		<b>LU - Setting switch-on time for courtesy light. [s]</b> Adjustment occurs with intervals of varying sensitivity. - from 1" to 59" with 1 second intervals; - from 1' to 2' with 10 seconds intervals; - from 2' to 3' with 1 minute interval; NO - Disabled ON - Permanent switch-on, switch-off using radio command (only QIK80EH).		
			NOTE: the courtesy light switches on at the start of each operation.	 
		<b>LG - Setting switch-on time for independent light. [s]</b> Adjustment occurs with intervals of varying sensitivity. - from 1" to 59" with 1 second intervals; - from 1' to 2' with 10 seconds intervals; - from 2' to 3' with 1 minute interval; NO - Disabled ON - Switch-on and switch-off using radio command.	   	  

Display	Application	Description		
		<b>RT - Setting the escape route mode test execution period [h]</b> 0,5 - Minimum 24 - Maximum		
		<b>TE - Setting the escape route mode temporary reinstatement time. [min]</b> 01 - Minimum 05 - Maximum		
		<b>DA - Setting the bi-directional mode duration time with delayed STOP. [s]</b> 05 - Minimum 60 - Maximum		
		<b>FF - Setting function of 0-14 exit.</b> 0F - Exit disabled 01 - Flashing light 02 - Flashing light and electromagnetic block (see QIK80EH installation manual) 03 - Electromagnetic block		
		<b>AM - AUX1 coupling board operation.</b> 1-5 - Step-by-step 1-3 - Opening 3A - Opening from inner side		
		<b>AN - AUX2 coupling board operation.</b> 1-5 - Step-by-step 1-3 - Opening 3A - Opening from inner side		
				
				

## 6.4 Second level menu - R0 (Radio Operation)

- use the keys ▲ and ▼ to select the required function

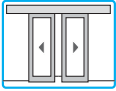


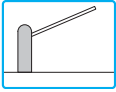

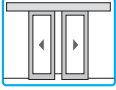

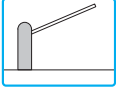

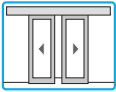

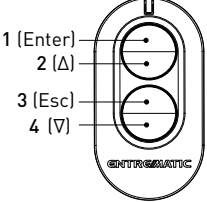
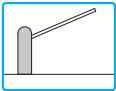

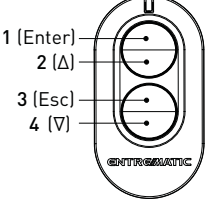










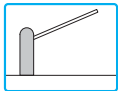

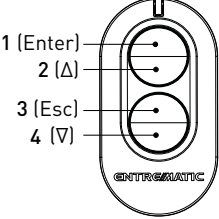


- press the ENTER key to confirm



Display	Application	Description
SR.	 GOLR ✓	<b>SR - Transmitter storage.</b>  <div style="background-color: #fde9d9; padding: 5px;"> <p>It is possible to directly access the Transmitter storage menu even with the display turned off, but only with the option Setting of display viewing mode set at 00 or 03:</p> <ul style="list-style-type: none"> <li>- for transmitting a remote control not present in the memory;</li> <li>- for transmitting an unstored channel of a remote control already present in the memory.</li> </ul> </div>
	 GOLR ✓	
ER.	 GOLR ✓	<b>ER - Single transmitter deletion.</b> 
	 GOLR ✓	
EA.	 GOLR ✓	<b>EA - Total memory deletion.</b> 
	 GOLR ✓	
EC.	 GOLR ✓	<b>EC - Single code deletion. (FUTURE USE)</b>
	 GOLR ✓	

R0

Display	Application	Description		
RE	 	<b>RE - Setting memory opening from remote control.</b> OF - Disabled ON - Enabled When enabled (ON) remote programming is activated. To memorize new transmitters without using the control panel, press and hold down the PRG key of an already-memorized GOL4 transmitter for 5 s until the LED switches on (within the capacity of the receiver) and press any CH key of the new transmitter.  NOTE: make sure that undesired transmitters are not accidentally memorized.	OF	ON
	 			
MU	 	<b>MU - Indication of maximum number of transmitters that can be stored in the integrated memory.</b> It is possible to memorize up to 100 or 200 rolling code transmitters. 20 - 200 storable transmitters 10 - 100 storable transmitters	20	10
	 			
[1] [2] [3] [4]	 	<b>C1, C2, C3, C4 - Setting CH1, CH2, CH3, CH4 key function of memorized transmitter.</b> NO - No setting selected 1-3 - Opening command 1-4 - Closing command 1-5 - Step-by-step command P3 - Partial opening command LG - Command to switch on/off the courtesy light KO - KEY OPEN command (priority opening) KC - KEY CLOSE command (priority closure, apart from NIGHT-TIME CLOSURE mode).  If only one (any) CH key of the transmitter is stored, command KEY OPEN (priority opening) is carried out. If from two to four CH keys of a single transmitter are stored, the functions matched with the CH keys are as follows: - CH1 = opening command 1-3; - CH2 = partial opening command; - CH3 = command to switch on/off the courtesy light; - CH4 = KEY OPEN command (priority opening).		NO 1-3 1-4 1-5 P3 LG KO KC
[1] [2] [3] [4]	 	<b>C1, C2, C3, C4 - Setting CH1, CH2, CH3, CH4 key function of memorized transmitter.</b> NO - No setting selected 1-3 - Opening command 1-4 - Closing command 1-5 - Step-by-step command P3 - Opening command of 1 automation with interlocked barriers LG - Command to switch on/off the courtesy light 1-9 - STOP command  If only one (any) CH key of the transmitter is stored, command 1-3 (opening/step-by-step) is carried out. If from two to four CH keys of a single transmitter are stored, the functions matched with the CH keys are as follows: - CH1 = command 1-3 opening/step-by-step; - CH2 = no setting selected; - CH3 = command to switch on/off the courtesy light; - CH4 = STOP command.		NO 1-3 1-4 1-5 P3 LG 1-9
		 <b>WARNING:</b> 1-3 (opening) and 1-5 (step-by-step) are binary options and are dependent by the <b>BC</b> <b>RM</b> selection.		

Display	Application	Description		
	 	<p><b>RK - Menu navigation via transmitter keyboard.</b>                      OF - Disabled                      ON - Enabled                      With the display switched off, quickly type the sequence of keys ③ ③ ② ④ ① using the desired memorized transmitter.</p> <p> NOTE: it is recommended to use a single dedicated transmitter.</p> <p> WARNING: during navigation via transmitter keyboard NONE of the memorized transmitters are active.</p> <p>To test the new configuration, switch off the display and give an open command using key ③.</p>		 
	 	 <p>Navigation via transmitter keyboard is automatically disabled after 4 minutes of inactivity or by setting  .</p>		

 NOTE: it is possible that, owing to the type of automation and control panel, certain menus are not available.

## 6.5 Second level menu - SF (Special Functions)

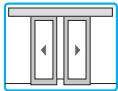


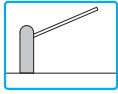



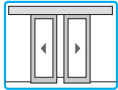
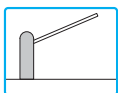



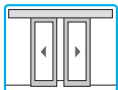
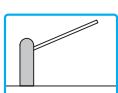








- use the keys ▲ and ▼ to select the required function



- press the ENTER key to confirm



Display	Application	Description
SP.		<b>SP - Setting the password.</b> <p><b>NOTE:</b> this setting is only possible when the password is not set. The setting of the password prevents unauthorised personnel from accessing selections and adjustments.</p> <p>It is possible to cancel the set password by selecting the sequence J1=ON, J1=OFF, J1=ON.</p>
IP.		<b>IP - Inserting the password.</b> <p><b>NOTE:</b> this setting is only possible when the password is set. When the password is not inserted, it is possible to access the visualization mode regardless of the selection made with J1. When the password is inserted, it is possible to access the maintenance mode.</p>
RD.		<b>RD - Resetting factory settings (SETTINGS RESET).</b> 
SV.	  	<b>SV - Saving user configuration on control panel storage module.</b> <p>Selecting    it is possible to save up to 3 personalized configurations in the memory positions ,  and  only with the storage module present on the control panel.</p> <p><b>WARNING:</b> if more than 100 transmitter codes are stored on the control panel storage module, it will not be possible to save any user configuration.</p>
RC.	  	<b>RC - Loading configuration.</b> <p>It is possible to load the user configurations previously saved on the control panel storage module, or load the predefined settings available in memory positions ,  and .</p>

Display	Application	Description
RL	   	<p><b>RL - Carica ultima configurazione impostata.</b></p>  ►  ► 
		<p>The MD1-MD2 display module automatically saves the last configuration set, and keeps it stored in the integrated memory. In the event of a fault or replacement of the control panel, it is possible to reset the automation configuration by connecting the MD1-MD2 display module and uploading the last configuration set.</p>
CU	 	<p><b>CU - View of the control panel firmware version.</b></p>  ►  ►  ► release 0.3.4 (EXAMPLE)
DU	 	<p><b>DU - View of the MD1-MD2 display module firmware version.</b></p>  ►  ►  ► release 0.3.4 (EXAMPLE)
AU	 	<p><b>AU - View of the MP1 accessory module firmware version.</b></p>  ►  ►  ► release 0.3.4 (EXAMPLE)

 NOTE: it is possible that, owing to the type of automation and control panel, certain menus are not available.



## 6.6 Second level menu - CC (Cycles Counter)

- use the keys ▲ and ▼ to select the required function



- press the ENTER key to confirm



Display	Application	Description
CV		<b>CV - View of the total manoeuvres counter.</b> ► 0.7 ► 3.4 ► 16 ► 25 ► 7.341.625 manoeuvres (EXAMPLE)
CA		<b>CA - Setting maintenance alarm.</b> It is possible to set the required number of operations (regarding the partial manoeuvres counter) for signalling the maintenance alarm. When the set number of operations is reached, the display visualises the alarm message .
	► 0.0 ► ▲ ▼ ► 0.0 ►  ► (EXAMPLE)	
	► 0.0 ► ▲ ▼ ► 0.7 ►  ► (EXAMPLE)	
		► 0.0 ► ▲ ▼ ► 25 ►  ► (EXAMPLE)
		► 0.0 ►  ► (00) (07) (25) (00) ► 72.500 manoeuvres (EXAMPLE)
CP		<b>CP - View of the partial manoeuvres counter.</b> ► 0.0 ► 0.7 ► 16 ► 25 ► 71.625 manoeuvres (EXAMPLE)
ZP		<b>ZP - Resetting partial manoeuvres counter.</b> 2 s ►
		To ensure correct operation, it is recommended to reset the partial manoeuvres counter: <ul style="list-style-type: none"> <li>- after each maintenance intervention;</li> <li>- after each setting of the maintenance alarm interval.</li> </ul>



NOTE: it is possible that, owing to the type of automation and control panel, certain menus are not available.

## 6.7 Second level menu - EM (Energy Management)

- use the keys ▲ and ▼ to select the required function



- press the ENTER key to confirm



Display	Application	Description		
BE.		<b>BE - Advanced battery test enabling.</b> OF - Disabled ON - Enabled The advanced battery test checks correct operation of the battery kit installed on the automation.	OF	ON
BT.		<b>BT - Selecting the battery mode.</b> 00 - Anti-panic batteries with emergency opening. 01 - Continuity batteries with last opening operation. 02 - Continuity batteries with last closing operation.	00	01
	EL21			
LB.		<b>LB - Signalling of flat batteries.</b> 00 - Display	00	
LL.		<b>LL - Setting the flat batteries signalling voltage threshold. [V] (FUTURE USE)</b>  NOTE: adjustment occurs with a sensitivity interval of 0.5 V, indicated by the switching on of the right-hand point.	MIN	MAX
BD.		<b>BD - Setting the batteries disconnection voltage threshold. [V]</b>  NOTE: adjustment occurs with a sensitivity interval of 0.5 V, indicated by the switching on of the right-hand point.	MIN	MAX
ES.		<b>ES - Accessory power supply disconnection with automation stopped or in stand-by mode. (FUTURE USE)</b>	OF	ON

NOTE: it is possible that, owing to the type of automation and control panel, certain menus are not available.

## 6.8 Second level menu - AP (Advanced Parameters)

- use the keys ▲ and ▼ to select the required function


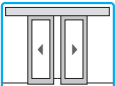




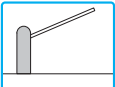












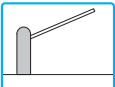





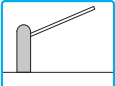




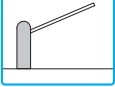



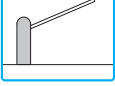









- press the ENTER key to confirm



Display	Application	Description		
AA.		<b>AA - Activation of AP (Advanced Parameters) menu.</b> OF - Disabled ON - Enabled	OF	ON
		NOTE: activation is necessary before being able to scroll through the AP (Advanced Parameters) menu.		
DO.		<b>DO - Setting of disengagement on obstacle during opening. [°]</b> 00 - Minimum 10 - Maximum	00	10
DC.		<b>DC - Setting of disengagement on obstacle during closing. [°]</b> 00 - Minimum 10 - Maximum	00	10
PP.		<b>PP - Setting of step-by-step sequence after command 1-5.</b> OF - Opening-Stop-Closing-Opening ON - Opening-Stop-Closing-Stop-Opening	OF	ON
SS.		<b>S5 - Duration of STOP in step-by-step sequence after command 1-5.</b> OF - Temporary ON - Permanent	OF	ON
R9.		<b>R9 - Activation of automatic closing after command 1-9 (STOP).</b> OF - Disabled ON - Enabled When enabled (ON) after a command 1-9 the automation carries out the automatic closing (if enabled), after the set time.	OF	ON
TA.		<b>TA - Setting the acceleration time. [%]</b> 00 - Fast acceleration 99 - Slow acceleration	00	99
		<b>TP - Setting of automatic closing time after partial opening. [s]</b> 00 - Minimum 30 - Maximum	00	30
TP.		<b>TP - Setting the automatic closing time after opening by P3 remote control (opening of 1 automation with inter-locked barriers). [s]</b> Adjustment occurs with intervals of varying sensitivity. - from 0" to 59" with 1 second intervals; - from 1' to 2' with 10 seconds intervals.	00	59
			1'	2'
TK.	 MP1 ✓ EL21 ✓	<b>TK - Setting of automatic closing time after key-operated opening. [s]</b> 00 - Minimum 30 - Maximum	00	30

Display	Application	Description		
		<b>OB - Setting opening deceleration. [°]</b> 20 - Minimum 40 - Maximum		
		<b>CB - Setting closing deceleration. [°]</b> 20 - Minimum 45 - Maximum		
		<b>DS - Setting of display viewing mode.</b> 00 - No display 01 - Selector settings (see paragraph 7.1) 02 - Automation status (see paragraph 7.2) 03 - Commands and safeties (see paragraph 7.3) 04 - Working temperature (DO NOT USE) 05 - Battery voltage (DO NOT USE)		
		<b>DS - Setting of display viewing mode.</b> 00 - No display 01 - Commands and safeties with radio range test (see paragraph 7.3) 02 - Automation status (see paragraph 7.2) 03 - Commands and safeties (see paragraph 7.3) 04 - Working temperature (DO NOT USE) 05 - Battery voltage (DO NOT USE)		
		<b>VT - Setting of variable automatic closing time according to foot traffic.</b> OF - Disabled ON - Enabled The automation automatically adjusts the variable closing time according to the intensity of pedestrian traffic present.		
		<b>PT - Passage from partial to total opening according to foot traffic.</b> OF - Disabled ON - Enabled The automation automatically switches from Partial opening to Total opening and vice versa depending on the intensity of pedestrian traffic.		
		<b>PT - Automatic opening repositioning command.</b> OF - Disabled ON - Enabled When enabled (ON) with the barrier open, the rod is automatically repositioned to a fully open position if the rod is moved to a closing position by external forces (wind, snow, etc.).		
		<b>DB - Selection of device connected to terminals 1-8.</b> NO - None SE - Safety edge PH - Photocells LO - Magnetic loop		
		<b>SM - Selecting the operation mode of the opening safety sensors.</b> 00 - The opening of the contact causes the opening speed to decrease in the last 500 mm of stroke of the door wing. 01 - The opening of the contact causes the opening operation to stop in the last 100 mm of stroke of the door wing. 02 - The opening of the contact causes the opening operation to stop in the last 70 mm of stroke of the door wing. 03 - The opening of the contact causes the opening speed to decrease in the last 500 mm of stroke of the door wing and the opening operation to stop in the last 100 mm of stroke of the door wing. 04 - The opening of the contact causes the opening speed to decrease in the last 500 mm of stroke of the door wing and the opening operation to stop in the last 70 mm of stroke of the door wing.		
		<b>TN - Setting intervention temperature for NIO electronic antifreeze system. [°C]</b> Adjustment of the working temperature of the control panel. The value does not refer to outside temperature.		

Display	Application	Description		
	 EL21 ✓	<b>EF - Setting the escape route mode.</b> OF - Disabled ON - Enabled   NOTE: The escape route mode can be set only with contacts 1-K0 and 1-KC closed.		
		<b>G1 - Setting the G1 input mode.</b> NO - Input disabled 1-3 - Input 1-3 (opening) 1-5 - Input 1-5 (step-by-step) 1-6 - Input 1-6 (safety stop) 1-8 - Input 1-8 (safety re-opening) dependent on the   setting SY - Synchronism input G8 - Input 1-8 (safety re-opening) not dependent on the   setting		
				
				
				
		<b>G2 - Setting the rod lighting kit.</b> 01 - On with barrier closed, off with barrier open, flashing with barrier operating. 02 - On with barrier closed, on with barrier open, flashing with barrier operating. 03 - Flashing with barrier closed, off with barrier open, flashing with barrier operating. 04 - Flashing with barrier closed, on with barrier open, flashing with barrier operating.		
				
		<b>PA - Setting the automations parallel mode.</b> 01 - Simultaneous automations (see QIK80EH installation manual) 02 - Interlocked one-way automations without presence 03 - Interlocked one-way automations with presence		
				
		<b>OL - Selecting the gate open indicator light mode.</b> OF - Flashing ON - Switched on When set OF, the light is switched off when the automation is closed, is switched on when the automation is open, is flashing during the opening and closing phases. When set ON, the light is switched off when the automation is closed, is switched on when the automation is open and during the opening and closing phases.		
		<b>DT - Setting the stopped barrier detection time. [ms]</b> 20 - Minimum 60 - Maximum		
	 EL21 ✗ COME ✓	<b>EK - Selecting electric block operation.</b> OF - Normal ON - Contact 1-28 can be managed from the terminal board of the control panel in mono-directional or bi-directional operation (blocking can be enabled/disabled with mono-directional operation).   WARNING: the selection is available only with the COME electronic functions selector installed.		




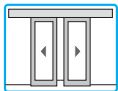








NOTE: it is possible that, owing to the type of automation and control panel, certain menus are not available.

## 7. Display viewing mode

**i** NOTE: it is possible that, owing to the type of automation and control panel, certain menus are not available.


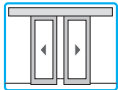

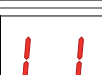
### 7.1 Viewing of Selector settings


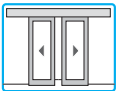

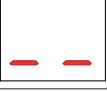
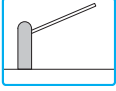








To enable the display mode Selector settings, select **AP** ► **DS** ► **01**

Display	Application	Description
		Automation closed.
		Automation open.
		Night function enabled.
		Bi-directional total opening.
		Bi-directional partial opening.
		Mono-directional total opening.
		Mono-directional partial opening.
		Reversed mono-directional total opening.
		Reversed mono-directional partial opening.

### 7.2 Viewing of Automation status

To enable the display mode Automation status, select **AP** ► **DS** ► **02**

Display	Application	Description
		Automation closed.
		Automation open.
		Automation stopped in intermediate position.

Display	Application	Description
		Automation closing.
		Automation opening.
		Automation closed.
		Automation open from left side.
		Automation open from right side.
		Automation in intermediate position from left side.
		Automation in intermediate position from right side.
		Automation closing from left side.
		Automation closing from right side.
		Automation opening from left side.
		Automation opening from right side.



## 7.3 Viewing of Commands and safeties

To enable the display mode Commands and safeties, select **AP** ► **DS** ► **03**

Display	Description
1-2	Automatic closing activation command.
1-3	Opening command.
1-4	Closing command.
1-5	Step-by-step command.
1-6	Safety with slowed opening.
1-8	Safety with closing reversal.
1-9	STOP command.
28	Block activation command.
3A	Inner side opening command.
3B	Outer side opening command.
3P	Hold-to-run opening command.
4P	Hold-to-run closing command.
6A	Safety with slowed opening sensor A.
6B	Safety with slowed opening sensor B.
8A	Safety with closing reversal sensor A.
8B	Safety with closing reversal sensor B.
A0	Auxiliary opening command.
	Opening command with interlocked barriers reservation.







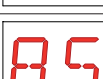






Display	Description
	AUX1 coupling board command reception.
	AUX2 coupling board command reception.
	Enabling opening from inner side.
	Enabling opening from outer side.
	EMERGENCY OPEN command for emergency opening.
	Automatic opening repositioning command.
	Enabling opening (regardless of the opening direction) limit switch.
	Enabling closing (regardless of the opening direction) limit switch.
	GENERAL PURPOSE 1 command.
	GENERAL PURPOSE 2 command - Fire alarm.
	Heating of the motors (NIO function) in progress.
	Priority key-operated closing KEY CLOSE command.
	Priority key-operated opening KEY OPEN command.
	Light activation command.
	Light mode selection command.
	Radio reception (of any CH key not stored).
	Obstacle detection by overcurrent.
	Obstacle detection by automation stopped.
	Partial opening command.
	Radio reception (of any stored transmitter CH key present in the memory).













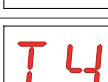
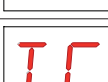


Display	Description
	Microswitch 1 command.
	Microswitch 2 command.








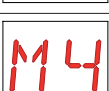








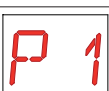
## 7.4 Viewing of alarms and faults





NOTE: the signaling of alarm messages takes priority over all other displays.

Type of alarm	Display	Description	Remedy
Accessories alarm		Test of safety sensor installed on terminal 6 failed.	Check the wiring and correct operation of the safety sensor.
		Test of safety sensor installed on terminal 6A failed.	Check the wiring and correct operation of the safety sensor.
		Test of safety sensor installed on terminal 6B failed.	Check the wiring and correct operation of the safety sensor.
		Test of safety sensor installed on terminal 8 failed.	Check the wiring and correct operation of the safety sensor.
		Test of safety sensor installed on terminal 8A failed.	Check the wiring and correct operation of the safety sensor.
		Test of safety sensor installed on terminal 8B failed.	Check the wiring and correct operation of the safety sensor.
		Integrated photocells malfunctioning.	Check that the photocells are clean and operating correctly.
		Incorrect connection of terminal 9 to terminal 41.	Connect contact 1-9 as shown.
		Shortcircuiting of the flashing light driver.	Contact Technical Assistance.
		Current overload on flashing light output.	Check correct connection of the flashing light to terminals 0-14.
Batteries alarm		Batteries almost flat.	Restore power supply or replace the battery kit.
		Flat batteries.	Restore power supply or replace the battery kit.
		Batteries not connected or absent.	Check correct connection of the battery kit to the control panel or disable the advanced battery test (if not present).

Type of alarm	Display	Description	Remedy
Encoder alarm		Encoder fault.	If the alarm continues, contact Technical Assistance.
		Reversal of the motor leads.	Check the motor leads.
		Encoder disconnected, false encoder contacts, encoder fault.	Check that the encoder is connected correctly, clean the contacts by connecting and disconnecting the encoder plug on the contacts, replace encoder.
Functional alarm		Detection of irregular overspeed.	Perform POWER RESET with command 1-29 or using the functions selector (if present). If the alarm continues, contact Technical Assistance.
		Failed closing of the door wings for executing the escape route mode test.	Manually check that the door wings move freely.
			Check the activation of safety photocells and sensors.
		Door wings opening failed.	Manually check that the door wings move freely and adjust the door wings height.
	High internal temperature. When the internal temperature is high, the automation operates at low speed.	/	
Emergency functions		Activation of the EMERGENCY OPEN command.	Check that 1-E0 contact is closed.
Control panel internal error		Fault at EMERGENCY OPEN input.	Check operation of the control panel. If the alarm continues, contact Technical Assistance.
		Failed internal bus communication. No master/slave presence with automations in simultaneous synchronism.	Check operation of the control panel.
			Check correct power supply of the automations.
		Internal radar input fault.	Check operation of the control panel. If the alarm continues, contact Technical Assistance.
	Factory initialization incomplete.	Contact Technical Assistance.	
Control panel internal error		Operation time-out error.	Perform POWER RESET with command 1-29 or using the functions selector (if present).
		Motor drive fault.	Perform POWER RESET with command 1-29 or using the functions selector (if present). If the alarm continues, contact Technical Assistance.
		Motor currents fault.	Perform POWER RESET with command 1-29 or using the functions selector (if present). If the alarm continues, contact Technical Assistance.
		EL21 battery fault EL21 block fault AUX motor coil fault	Check the functioning of the EL21 control panel. Check the functioning of the AUX motor coil. If the alarm continues, contact Technical Support.

Type of alarm	Display	Description	Remedy
Blocking device alarm		Door wings release failed.	Check the wiring of the blocking device and microswitch. Check microswitch operation. Check blocking device movement.
		Door wings locking failed.	Check the wiring of the blocking device and microswitch. Check microswitch operation. Check blocking device movement.
		Auxiliary coil short circuit.	Check the wiring of the bistable blocking device. Check operation of the bistable blocking device.
		Auxiliary coil not connected.	Check the wiring of the bistable blocking device.
		Main coil not connected.	Check the wiring of the blocking device.
		Main coil short circuit.	Check the wiring of the blocking device. Check operation of the blocking device.
Mechanical alarm		Automation blocked.	Check operation of the blocking device. Check for the presence of obstacles near the mechanical stops.
		Motor short circuit.	Check correct connection of the motor. Check correct operation of the motor.
		Door dimension error. Door too long.	Check the transmission belt.
Mechanical alarm		Door dimension error. Door too short.	Manually check that the door wings move freely.
		Stop exceed error.	Perform POWER RESET with command 1-29 or using the functions selector (if present).
		Absence of motor during an operation.	Check correct connection of the motor.
		Irregular operation of the opening limit switch.	Check correct connection of the opening limit switch.
		Irregular operation of the closing limit switch.	Check correct connection of the closing limit switch.
		Incorrect functioning of the elastic in the EL21 control panel.	Check the elastic on the door.
		Detection of the third consecutive obstacle.	Check for the presence of permanent obstacles along the stroke of the automation.
Power supply alarm		No power supply.	Check that the control panel is powered correctly.
		Mains voltage too low.	Check the automation power supply voltage.

Type of alarm	Display	Description	Remedy
Radio operations alarm		Insertion of a memory module containing more than 100 memorized transmitters. WARNING: the  ►  ►  setting is automatic.	To save the set configurations in the memory module, cancel a few memorized transmitters to bring the total lower than 100. Set  ►  ►  .
		Memory module not detected.	Insert a memory module.
		Memory module not compatible with control panel.	Insert a memory module compatible with control panel.
Settings alarm		Blocking device settings error.	Check the blocking device settings on the control panel.
		Operation mode setting error.	Check the operation mode set on the COMER-COMKR functions selector.
		COMKR mechanical functions selector fault or connection error.	Check correct connection of the COMKR mechanical functions selector.
		COMER electronic functions selector KEY contacts connection error.	Check that the KEY contacts of the COMER electronic functions selector and 1-G1 on the control panel are both connected and are enabled/disabled at the same time.
Settings alarm		COMER electronic functions selector enabled.	Disable the COMER electronic functions selector.
		Closing commands setting not compatible with the escape route mode.	Check closing commands.
		R1 trimmer not enabled.	Perform the trimmer enabling procedure. If the alarm continues, contact Technical Assistance.
		VA trimmer not enabled.	Perform the trimmer enabling procedure. If the alarm continues, contact Technical Assistance.
		VC trimmer not enabled.	Perform the trimmer enabling procedure. If the alarm continues, contact Technical Assistance.
		Trimmer enabling procedure not valid.	Perform the trimmer enabling procedure. If the alarm continues, contact Technical Assistance.
Redundancy test alarm		Main motor test failure. (Insufficient movement during the redundancy test).	Check the wiring of the main motor. Check operation of the main motor. Manually check that the door wings move freely.
		Auxiliary motor test failure. (Insufficient movement during the redundancy test).	Check the wiring of the auxiliary motor. Check operation of the auxiliary motor. Manually check that the door wings move freely.
		Request for maintenance intervention.	Proceed with the routine maintenance intervention.

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