

IS88 Rev.09 28/11/2017

AG/CTRL

centrale di comando per barriere elettromeccaniche serie AGILIK 4 e 6 / BIONIK

Istruzioni originali





- IT Istruzioni ed avvertenze per l'installatore pag. 24
- EN Instructions and warnings for the installer pag. 51
- DE Anweisungen und Hinweise für den Installateur S. 78
 - FR Instructions et consignes pour l'installateur p. 105
- ES Instrucciones y advertencias para el instalador pág. 132
 - PT Instruções e advertências para o instalador pág. 159
- NLD Aanwijzingen en waarschuwingen voor de installateur pag. 186
 - PL Instrukcja i ostrzeżenia dla instalatora pag. 213



1 General safety precautions



Warning: incorrect installation may cause severe damage or injury.

Read the instructions carefully before installing the product.

This installation manual is intended for qualified personnel only.

ROGER TECHNOLOGY cannot be held responsible for any damage or injury due to improper use or any use other the intended usage indicated in this manual.

Installation, electrical connections and adjustments must be performed by qualified personnel, in accordance with best practices and in compliance with applicable regulations.

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

A switch or an omnipolar cut-off switch with a contact opening of at least 3 mm must be installed on the mains power line.



Ensure that an adequate residual current circuit breaker and a suitable overcurrent cut-out are installed ahead of the electrical installation in accordance with best practices and in compliance with applicable legislation.

The European standards EN 12453 and EN 12445 define the minimum safety requirements for the operation of automatic doors and gates. In particular, these standards require the use of force limiting and safety devices (sensing ground plates, photocell barriers, operator detection function etc.) intended to detect persons or objects in the operating area and prevent collisions in all circumstances.

Where the safety of the installation is based on an impact force limiting system, it is necessary to verify that the characteristics and performance of the automation system are compliant with the requisites of applicable standards and legislation.

The installer is required to measure impact forces and programme the control unit with appropriate speed and torque values to ensure that the door or gate remains within the limits defined by the standards EN 12453 and EN 12445.

When requested, connect the automation to an effective earthing system that complies with current safety standards.

Disconnect the mains electrical power before performing any work. Also disconnect any buffer batteries used. Only use original spare parts when repairing or replacing products. Packaging materials (plastic, polystyrene, etc.) must be disposed

of correctly and must not be left within reach of children, as they are a potential source of danger.

2 Product description

The AG/CTRL controller is a unit for the sensored control of the ROGER brushless motor powering an electromechanical barrier.

The AG/CTRL uses two magnetic encoders, with one monitoring the motor and another monitoring the position of the boom, even when it is moved manually.

Two opposing barriers may be connected with a RS485 serial communication cable. This capability is only available with firmware version 1.3 ($nE \mid B$) or later.

We recommend using only ROGER TECHNOLOGY accessories and control and safety devices. Specifically, we recommend installing **F4ES** or **F4S** series photocells.

3 Updates of version r3.25



New barrier type options have been added for parameter A I.

R I D3 Selection of boom up to 3 m for BIONIK barrier

FILOY Selection of boom from 3 to 4 m BIONIK barrier

4 Technical characteristics of product

	AG/004 AG/006	BI/004	AG/004/115 AG/006/115	BI/004/115			
MAINS POWER VOLTAGE	230 Vac ± 10% 50Hz 115Vac ± 10% 60Hz						
MAXIMUM MAINS POWER ABSORPTION	270 W						
FUSES	F1 = 10A (ATO257) motor power circuit protection F2 = 4A (ATO257) electric lock protection F3 = 3A (ATO257) accessories power supply protection						
	F4 = T1A (5x20 r primary transfor protection		F4 = T2A (5x20 mr primary transform protection				
NUMBER OF CONNECTABLE MOTORS	1						
MOTOR POWER SUPPLY	36 Vac						
MOTOR TYPE	sinusoidal drive brushless (ROGER BRUSHLESS)						
MOTOR CONTROL TYPE	"sensored", with field oriented control (FOC)						
MAXIMUM MOTOR POWER	220 W						
MAXIMUM POWER, EXTERNAL FLASHING LIGHT	5 W 24 Vdc (model R92/LED24 ROGER)						
MAXIMUM POWER, BARRIER LIGHTS	12 W 24 Vdc						
MAXIMUM POWER, ELECTRIC LOCK	10W 12Vdc (imp 5W 12Vdc (norm		ion, 1.5 seconds) ed electric lock)				
MAXIMUM POWER, INDICATOR LAMP	3 W 24 Vdc						
ACCESSORY OUTPUT POWER	10 W 24 Vdc						
OPERATING TEMPERATURE	₹ -20°C ₹ +55	5°C					
PRODUCT DIMENSIONS	Dimensions in m	nm.: 166x15	0x48 Weight: 0.25	54 Kg			
		А	G/EXP				
RELAY CONTACT NC	2x 30 Vdc 1A (pc	otential free	contact)				

5 Description of connections

Figure 1-2 shows connection diagrams.



Measure the voltage on the primary mains power connection with a tester.

For the brushless automation system to function correctly, the mains power voltage must be 230Vac (115 Vac) \pm 10%.

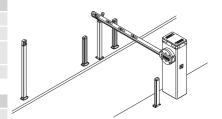
If the voltage measured is not as indicated above or is unstable, the automation system may not work correctly.

5.1 Electrical connections

CONNECTING CONTROL UNIT TO MAINS ELECTRICITY

Power supply 230 Vac ±10%

CONNECTING CONTROL PANEL TO ACCESSORIES	Lcable 1÷20 m
Photocells - Receiver	4x0,5 mm ²
Photocells - Transmitter	2x0,5 mm ²
Keypad H85/TDS - H85/TTD (connecting to control panel to decoder board)	3x0,5 mm²
Key selector R85/60	3x0,5 mm ²



CONNECTING CONTROL PANEL TO FLASHING LIGHT

Power supply 24 Vdc LED (5 W max) 2x1 mm²

CONNECTING CONTROL PANEL TO BARRIER	Lcable		
OPEN INDICATOR	1÷20 m		
Power supply 24 Vdc (3 W max)	2x0,5 mm ²		

CONNECTING CONTROL PANEL TO ANTENNA	
Cable type RG58	max 10 m



SUGGESTIONS: with existing installations, we recommend checking the cross section of the cables and that the cables themselves are in good condi-

tion.

	DESCRIPTION
	Connection to mains power, 230 Vac $\pm 10\%$ (115 Vac $\pm 10\%$ 60 Hz). Fuse 5x20 T1A. Fuse 5x20 T2A (mains power 115 Vac).
†3 †4 †5 †6 22 13	Secondary transformer input for 26 V AC motor power (SEC1) and for 19 V power to logical control and peripheral devices (SEC2). N.B.: Ready wired in factory by ROGER TECHNOLOGY.
X-Y-Z 7 Y 8 9 X W Z	Connection to ROGER brushless motor. N.B.: Ready wired in factory by ROGER TECHNOLOGY. Warning! If the motor wires become disconnected from the terminal board, after reconnecting correctly, the travel must be acquired again as described in chapter 8.
BATTERY (+) BATTERY (-)	Connection to the battery kit AG/BAT/KIT or BI/BAT/KIT (see fig. 16-17). See instructions for B71/BCHP or BI/BCHP for further information.

6 Function buttons and display

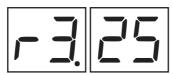
- Press the UP ▲ and/or DOWN buttons to view the parameter you intend to modify.
- Use the + and = buttons to modify the value of the parameter. The value starts to flash.
- Press and hold the + or button to scroll quickly through values, to modify the parameter more quickly.
- Parameters can only be modified while the motor is not running. Parameters can be viewed at any time.

7 Switching on or commissioning

Power the control unit.

The firmware version of the control unit is displayed briefly.

Version installed r3.25.

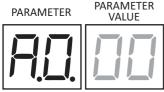


Immediately afterwards, the displays enters the commands and safety device status mode. See chapter 7. Now set up the installation by configuring the parameters as needed.

For installations with two opposing barriers, settings must be made from the MASTER controller. Only the parameters RD and TB may be modified from the SLAVE controller.

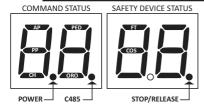
8 Display function modes

8.1 Parameter display mode



See chapter 10 for detailed descriptions of parameters.

8.2 Command and safety device status display mode



COMMAND STATUS:

The command status indicators on the display (segments AP = open, PP = step mode, CH = close, PED = partial opening, ORO=clock) are normally off. They illuminate when a command is received (e.g.: when a step mode command is received, the segment PP illuminates).

SAFETY DEVICE STATUS:

The safety device status indicators on the display (segments FT = photocells, COS = sensing edge or STOP/RELEASE position) are

normally on. If an indicator is off, the relative device is in alarm state or is not connected. The an indicator is flashing, the relative device has been disabled with a specific parameter.

8.3 TEST mode

The TEST mode is used to test activation of the commands and safety devices with visual confirmation. To activate the mode, press the TEST button with the automatic barrier system at rest. If the barrier is moving, pressing TEST stops the barrier. Pressing the button again enables TEST mode.

The flashing light and the barrier open indicator lamp illuminate for one second.

N.B.: For installations with two opposing barriers, if the TEST button is pressed for the SLAVE barrier, the MASTER barrier continues to function normally.



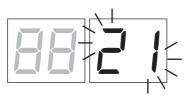


The command signal status is shown on the left hand side of the display for 5 seconds, ONLY when the respective command signal is active (AP, CH, PP, PE, OR).

For example, if the open command is activated, the letters AP appear on the display.

The status of the safety devices/inputs is shown on the right hand side of the display. The number of the terminal relative to the safety device in alarm state flashes.

Example: STOP contact in alarm state.



00	No safety device in alarm state or barrier waiting for command.
21	STOP contact active. Release device open. Barrier inspection hatch open.
23	Sensing edge COS not connected or not functioning.
24	Photocell FT (only visible for MASTER barrier) not connected or not functioning.
-5 (rS)	STOP contact active for MASTER barrier (message shown on SLAVE controller displayed).
dALA	Parameter 7 I modified. Press the PROG key until APPappears on the display, then repeat the acquisition procedure (see fig. 29 and chapter 9.2).

N.B.: If one or more contacts are open, the barrier will neither open nor close.

If more than one safety device is in alarm state, once the problem relative to the first device is resolved, the alarm for the next device is displayed. Any further alarm states are also displayed with the same logic. Press the TEST button again to exit test mode.

After 10 seconds with no user input, the display returns to command and safety device state display mode.

8.4 Standby mode



This mode is activated after 30 minutes with no user input. The POWER LED flashes slowly.

Press UP ♠, DOWN ▼, + or = to reactivate the control unit.

9 Travel acquisition



For the system to function correctly, the barrier travel must be acquired by the controller.

9.1 Before starting:

Select the length of the boom with the parameter A I.



It is very important that this parameter is selected correctly. An incorrect setting may cause severe damage or injury.

SELECTION	MODEL	воом
A I 00	AG/004	up to 3 m
AI DI	AG/004	from 3 m to 4,5 m
A 1 02	AG/006	from 4,5 to 6 m
R I 03	BI/004	up to 3 m
A 1 04	BI/004	from 3 m to 4 m

1. Select the position of the barrier in relation to the gate, using parameter 7 !. The factory setting of the parameter is with the barrier installed on the right (7 !0 !) and the boom opening/closure gate on the left (seen from the inspection hatch side).







If the installation position is changed from the right to the left, the position of the spring(s) must also be changed. For the correct installation, refer to the AGILIK and/or BIONIK barrier installation manual.

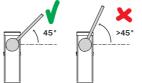


IMPORTANT! Lubricate the pivot points with lithium based grease (EP LITIO)

2. Check that the "operator present" function is not enabled (A7 00).



Check the spring balance setting and the mechanical stop settings. See the installation manual for the AGILIK or BIONIK barrier.

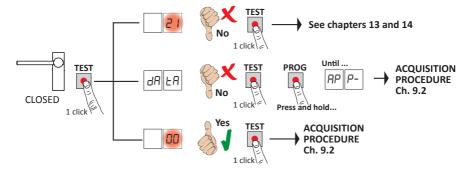




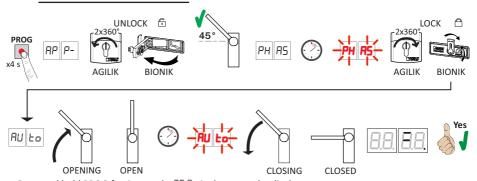


IMPORTANT! Lubricate the pivot points with lithium based grease (EP LITIO)

- 4. For installations with opposed barriers, connect the command signals and safety devices to the MASTER controller. See chapter 11 for further information on installation (see fig. 18).
- 5. Move the barrier boom into the completely CLOSED position.
- 6. Press TEST (see TEST mode in chapter 8) and check the command signal and safety device states. If the safety devices are not installed, jumper the contact or disable safety device function from the relative parameter (50, 5 I and 73).



9.2 Acquisition procedure:



- Press and hold PROG for 4 seconds. AP P- is shown on the display.
- Unlock the barrier.

AGILIK. Turn the key anticlockwise by two full turns.

BIONIK. Open the release cover.

- The barrier opens 45° degree.
- After a few seconds, the message PHR5 is shown on the display. The controller unit launches a calibration procedure. The operating parameters of the motor are determined during calibration.
- If the motor calibration procedure is successful, the message PH R5 flashes on the display.
- To lock the barrier again

AGILIK. Turn the key clockwise by two full turns.

BIONIK. Close the release cover and turn the key.

- The acquisition procedure now starts. The message AULD is shown on the display and the barrier starts opening at low speed.
- Once the barrier open mechanical stop is reached, the barrier stops briefly. The message flut flashes on the display.
- The barrier closes until it reaches the barrier closed mechanical stop.

If the acquisition procedure is completed successfully, the display enters the command and safety device state display mode.

If the following error messages are shown on the display, repeat the acquisition procedure:

- no PH: calibration procedure failed.
- AP P.E: acquisition error.

For more information, see chapter 14 "Alarms and faults".

Index of parameters

PARAM.	FACTORY DEFAULT	DESCRIPTION	PAGE
AO	00	Enable RS485 serial communication (MASTER-SLAVE)	60
R I	02	Barrier model and the length of the boom selection	60
A5	00	Automatic closing after time pause (from barrier completely open position)	60
A3	00	Automatic closing after mains power outage	60
R4	00	Step mode control function selection (PP)	61
AS	00	Pre-manoeuvre flashing warning	61
A6	00	Condominium function for partial open command (PED)	61
A٦	00	Enable "operator present" function	61
AB	00	Barrier open/photocell test function and battery saving mode indicator lamp	61
10	00	Enable the AG/EXP signal device to indicate barrier completely open/closed positions	62
11	10	Setting deceleration during opening	62
12	10	Setting deceleration during closure	62
21	30	Setting automatic closing time	62
29	00	Enable electric lock	62
31	09	Obstacle detection time setting (crush prevention)	62
33	10	Setting opening start acceleration	62
34	10	Setting closure start acceleration	62
40	04	Opening speed setting	62
41	04	Closure speed setting	62
42	01	Approach speed setting	62
43	15	Opening approach distance setting	63
44	30	Closing approach distance setting	63
49	01	Number of automatic closure attempts after activation of sensing edge or obstacle detection (crush protection)	63
50	00	Photocell mode for barrier opening (FT)	63
51	02	Photocell mode for barrier closure (FT)	63
52	01	Photocell (FT) mode with barrier closed	63
56	00	Enable close command 6 s after activation of photocell (FT)	63
65	08	Motor stop distance setting	63
71	01	Installation position of barrier relative to gateway (seen from the inspection hatch side). $ \\$	64
73	00	Sensing edge COS configuration	64
76	00	Radio channel 1 configuration (PR1)	64
רר	03	Radio channel 2 configuration (PR2)	64
78	02	Flashing light / upper cover lights frequency configuration	64
79	00	Operating mode of signal lights on boom	64
80	00	Clock contact configuration	64

PARAM.	FACTORY DEFAULT	DESCRIPTION	PAGE
81	00	Enable safeguarded barrier closure/opening	65
82	03	Safeguarded closure/opening activation time setting	65
83	00	Parking access mode selection	65
84	00	Enable close command after photocell activation (FT)	65
85	00	Enable automatic open function with flat battery	66
90	00	Restoring factory default values	66
nO	01	HW version	66
n l	23	Year of manufacture	66
n2	45	Week of manufacture	66
nΒ	67		66
n۲	89	Serial number	66
n5	01		66
n6	23	FW version	66
٦٦	45	RS485 serial communication version	66
οП	01		66
oO	23	Manoeuvres performed	66
0	45		66
hO	01	Manoeuvre hours	67
ЬI	23	ivianoeuvie nouis	67
d0	01	Days with unit switched on	67
d I	23	bays with anteswitched on	67
PΙ	00		67
P2	00	Password	67
P3	00	1 4550014	67
PY	00		67
[P	00	Password change protection	67

11 Parameters menu

PARAMETER VALUE

Enable RS485 serial communication (MASTER-SLAVE) Enabling serial communication permits the synchronised control of two opposing automation systems. Example: a command signal received by MASTER automation system also opens the SLAVE automation system. Disabled. SLAVE automation system. MASTER automation system. When the MASTER automation is enabled, the message 5rCH illuminates on the display for a few seconds. If the SLAVE automation system is detected correctly, C485 illuminates.

A I D	Barrier model and the length of the boom selection WARNING! An incorrect setting may cause severe damage or injury. Use the standard parameter values indicated in the table in relation to the boom length selected.						ngth						
								Parar	neter				
				11	12	31	33	34	40	41	43	44	65
	00	AG/004 : boom up to 3 m.	3	08	06	רם	05	רם	רם	רם	10	10	04
	01	AG/004: boom from 3 m to 4.5 m.	VALUE	09	09	08	06	08	06	05	10	10	06
	02	AG/006: boom from 4.5 m to 6 m.	ARD	10	10	09	10	10	04	04	15	30	08
	03	BI/004: boom up to 3 m.	STANDARD	08	06	רם	05	רם	רם	רם	10	10	04
	04	BI/004: boom from 3 m or 4 m.	ST	09	09	08	06	08	06	05	10	10	06

	Automatic closing after time pause (from barrier completely open position). N.B.: This parameter is not visible for the SLAVE barrier, and if the value of parameter $\theta \beta = 0$ 1, $\theta \beta = 0$ or $\theta \beta = 0$.
00	Disabled.
0 1- 15	From 1 a 15 automatic closure attempts after activation of photocells. Once the number of attempts set is reached, the barrier remains open.
99	The harrier tries to close indefinitely

Automatic closing after mains power outage N.B.: This parameter is not visible for the SLAVE barrier.

Disabled. The barrier does NOT close automatically when mains power is restored.

Enabled. If the barrier is NOT completely open, when mains power is restored, the barrier closes after a 5 second pre-manoeuvre warning signalled with the flashing light (independently of the value set with parameter π5).

A4 00	Step mode control function selection (PP)
00	Open-stop-close-stop-open-stop-close
0 1	Condominium function: the barrier opens and closes after the set automatic closing time. The automatic closing timer restarts if a new step mode command is received with the boom in the completely open position. Step mode commands are ignored while the barrier is opening. This allows the boom to open completely and prevents unintentional closing. If automatic closing is disabled ($R2\ DD$), the condominium function automatically attempts a closing manoeuvre $R2\ D$!
02	Condominium function: the barrier opens and closes after the set automatic closing time. The automatic closing timer does NOT restart if a new step mode command is received. Step mode commands are ignored while the barrier is opening. This allows the boom to open completely and prevents unintentional closing. If automatic closing is disabled (A2 DD), the condominium function automatically attempts a closing manoeuvre A2 D I
03	Open-close-open-close.
04	Open-close-stop-open.
05.00	
H5 UU	Pre-manoeuvre flashing warning
00	Disabled. The flashing light is activated during opening and closing manoeuvres.
0 1- 10	Flashing warning signal for 1 to 10 seconds prior to every manoeuvre.
99	5 second flashing warning signal prior to closing manoeuvre.
	• • • • • •
A6 00	Condominium function for partial open command (PED)

י טט סח	Condominium function for partial open command (PED)
00 0	Disabled. The barrier opens partially in step mode: open-stop-close-stop-open
0 I E	Enabled. Partial open commands (PED) are ignored during barrier opening.

חוחח	N.B.: this parameter is not visible if the value of parameter 83 = 01, 02 or 03.
00	Disabled.
01	Enabled. The open (AP) or close (CH) button must be pressed continuously to operate the barrier. The boom stops when the button is released.

	01	Enabled. The open (AP) or close (CH) button must be pressed continuously to operate the barrier. The boom stops when the button is released.
00.00		Dentity of the second s
ı	A8 00	Barrier open/photocell test function and battery saving mode indicator lamp N.B.: This parameter is not visible for the SLAVE barrier, which has a non-modifiable setting of $\Omega\Omega$.
	00	The indicator is off when the barrier is closed, and steadily lit during manoeuvres and when the barrier is open.
	01	The indicator flashes slowly during opening manoeuvres, and is lit steadily when the barrier is completely open. Flashing rapidly during closing manoeuvres. If the barrier is stopped in an intermediate position, the lamp extinguishes twice every 15 s.
	02	Set to \square 2 if the output \mathbf{SC} is used for the photocell test. See fig. 6.
	03	Set to 03 if the output SC is used for the "battery saving" function. See fig. 7. When the barrier is completely open or closed, the controller unit deactivates any accessories connected to terminal SC to reduce battery consumption. N.B.: setting not available for installations with two opposing barriers. This value is not visible if the value of parameter $83 = 0.1, 0.2, 0.3$ or $80 = 10, 1.1$.
		Set to $\Box H$ if the output \mathbf{SC} is used for the "battery saving" function and photocell test function.

See fig. 7.

N.B.: setting not available for installations with two opposing barriers. This value is not visible if the value of parameter B3 = 0.1, 0.2 or 0.3 or 0.3

10.00	5 11 11 AC/5VD : 1 1 :
10 00	Enable the AG/EXP signal device to indicate barrier completely open/closed positions (NC potential free contact)
00	Disabled.
01	Enabled. When the boom is completely open, contact TO (NC) opens and the green LED illuminates on the AG/EXP board.
	When the boom is completely closed, contact TC (NC) opens and the red LED illuminates on the AG/EXP board.
11 10	Setting deceleration during opening
15 10	Setting deceleration during closure
0 1- 10	01= barrier decelerates near stop 10= barrier decelerates long before reaching the stop. N.B.: Available values may be limited by the setting for parameter β 1.
2130	Setting automatic closing time The timer starts from the barrier open state and continues for the set time. Once the set time is reached, the barrier closes automatically. The timer count restarts if a photocell is triggered.
	pause time settable from 00 to 90 s.
92-99	pause time settable from 2 to 9 min.
29 00	Enable electric block
00	Disabled.
01	Normally not powered. The electric lock is powered for 1,5 s at the start of the opening manoeuvre to allow the barrier to open.
02	Magnetic "ventouse" electric lock normally powered when the barrier is completely closed. Not powered when the barrier is moving or completely open
3109	Obstacle detection function setting (crush prevention) The barrier reopens if the obstacle detection system is activated during a closing manoeuvre. During opening manoeuvres, the barrier is reversed by the obstacle detection system only if the obstacle is detected within the first 60° of the manoeuvre. The maximum number of automatic closing attempts is set by parameter 49. N.B.: Available values may be limited by the setting for parameter 81.
0 1-09	01= minimum activation time (maximum sensitivity) 09= maximum activation time (minimum sensitivity).
10	The barrier remains stationary against the obstacle for a maximum time of 5 s before reversing.
33 10	Setting opening start acceleration
34 10	Setting closure start acceleration
0 1- 10	01= the barrier accelerates rapidly at start of manoeuvre 10= the barrier accelerates slowly and progressively at start of manoeuvre. N.B.: Available values may be limited by the setting for parameter R .
40 04	Setting opening speed (%)
4104	Setting closure speed (%)
0 1- 10	01= 10% minimum speed 10= 100% maximum speed. N.B.: Available values may be limited by the setting for parameter ₹ !.
42.01	Approach speed setting This parameter sets the motor speed when approaching the barrier open/closed stop.
0 1- 10	01= 10 motor revolutions per minute (RPM) 10= 100 motor revolutions per minute (RPM).

43 15	Opening approach distance setting	
44 30	Closing approach distance setting	
05-30	from 0,5 to 3 of turns performed by the motor at speed set with parameter 42. N.B.: Available values may be limited by the setting for parameter #1.	
49 0 1	Number of automatic closure attempts after activation of sensing edge or obstacle detection (crush protection)	
00	No automatic closure attempts.	
0 1-03	From 1 to 3 automatic closure attempts. Automatic closure is only performed if the barrier is completely open. We recommend setting a value equal to or lower than the value set for parameter R2.	
50 00	Photocell mode for barrier opening (FT) N.B.: this parameter is not visible if the value of parameter 83 = 0 1, 02 or 03.	
00	DISABLED. Photocell is not active or not installed.	
01	STOP. The barrier stops and remains stationary until the next command is received.	
02	lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:	
03	TEMPORARY STOP. The barrier stops and remains stationary as long as the photocell is obstructed. The barrier resumes opening when the photocell is cleared.	
04	DELAYED REVERSE. The barrier stops if the photocell is obstructed. The barrier closes when the photocell is cleared.	
5102	Photocell mode for barrier closure (FT) N.B.: this parameter is not visible if the value of parameter 83 = 0 1, 02 or 03.	
00	DISABLED. Photocell is not active or not installed.	
01	STOP. The barrier stops and remains stationary until the next command is received.	
02	lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:	
03	TEMPORARY STOP. The barrier stops and remains stationary as long as the photocell is obstructed. The barrier resumes closing when the photocell is cleared.	
04	DELAYED REVERSE. The barrier stops if the photocell is obstructed. The barrier opens when the photocell is cleared.	
52 01	Photocell (FT) mode with barrier closed N.B.: this parameter is not visible if the value of parameter 83 = 0 1, 02 or 03 or if R8 = 0 1, 02 or 03	
00	If the photocell is obstructed, the barrier cannot open.	
01	The barrier opens when an open command is received, even if the photocell is obstructed.	
02	The photocell sends the barrier open command when obstructed.	
56 00	Enable close command 6 s after activation of photocell (FT) N.B.: This parameter is not visible if $AB \ DB$ or $AB \ DB$ is set, and if value of parameter $BB = D \ I$, DB or DB .	
00	Disabled.	
01	Enabled. When the photocell barrier FT is crossed, a close command is sent 6 seconds later.	
65 08	Motor stop distance setting. The motor brake function is activated each time a stop is requested by a user command or by activation of the photocells. Set a value that will prevent collision with objects or persons due to the inertia of the boom.	
0 1- 10	01= rapid braking/smaller stopping distance 10= gentle braking (soft-stop)/greater stopping distance (NOTE: recommended setting for bars longer than 4 m). N.B.: Available values may be limited by the setting for parameter β l .	

וםור	Installation position of barrier relative to gateway (seen from interior side) For installations with two opposed barriers, this setting must be made for the MASTER barrier. The SLAVE barrier recognises its position automatically. N.B.: every time the installation position is changed by altering parameter 7 I, the display shows a position data request message dALA. Press the PROG key until APP- appears on the display, then repeat the acquisition procedure (see fig.19 and chapter 9.2).	
00	Barrier installed on left. With the boom opening/closure gate on the right.	
01	Barrier installed on right. With the boom opening/closure gate on the left.	
7∃ □□ Sensing edge COS configuration		
00	Sensing edge NOT INSTALLED.	
01	NC contact (normally closed). The barrier reverses only when closing.	

□ Contact with 8k2 resistor. The barrier reverses only when closing.

76 00	Radio channel 1 configuration (PR1)
77 03	Radio channel 2 configuration (PR2)
00	STEP MODE.
01	PARTIAL OPENING.
02	OPENING.
03	CLOSING.
04	STOP.
רם	STEP MODE with confirmation for safety ⁽¹⁾ .
08	PARTIAL OPENING with confirmation for safety (1).
09	OPEN with confirmation for safety ⁽¹⁾ .
10	CLOSE with confirmation for safety (1).

 $^{^{(1)}}$ To prevent barrier manoeuvres caused by accidentally pressing a remote control button, confirmation is required to enable the command. Example: parameters 76 $^{\circ}$ 07 e 77 $^{\circ}$ 1 set:

Pressing the CHA button on the remote control selects the step mode function, which must be confirmed within 2 seconds by pressing CHB on the remote control. Press CHB to activate partial opening.

☐☐ Flashing light / upper cover lights frequency configuration	
00	The frequency is set electronically from the flashing light unit.
01	Slow flash. The light flashes at a lower frequency when the boom is near the mechanical stops. $ \\$
02	Light flashes slowly when barrier opens, rapidly when barrier closes. The light flashes at a lower frequency when the boom is near the mechanical stops.
79 00	Operating mode of signal lights on boom N.B.: to reduce power consumption, the controller automatically sets this parameter to D4 during battery powered operation.
00	Disabled. Lights always off.
01	Lights always on.
02	Lights on with boom stationary, flashing when boom is moving.
03	Short flash with boom stationary, flashing normally when boom is moving.
04	Short flash with boom closed, flashing normally when boom is moving, off when boom is open. $ \\$

□□□□ Clock contact configuration.

When the clock function is active, the barrier opens and remains open.

At the end of the programmed time set with the external device (clock), the barrier closes.

- When the clock function is active, the barrier opens and remains open. Any command signal received is ignored.
- When the clock function is active, the barrier opens and remains open. Any command signal received is accepted. When the barrier returns to the completely open position, the clock function is reactivated.

∃ | □□ Enable safeguarded barrier closure/opening

Enabling this parameter ensures that the barrier is not left open due to incorrect and/or accidental commands or due to strong gusts of wind.

This function is NOT enabled if:

- the barrier receives a STOP command:
- the sensing edge is activated;
- the number of closure attempts set by parameter R≥ has been reached.
- ΠΠ Disabled. Parameter 82 is not visible.
- Enabled. After a period of time set with parameter 82, the control unit signals a 5 second pre-manoeuvre warning with the flashing light, regardless of the parameter 85 and then closes the barrier.

Enabled. If the barrier is closed as a result of a step mode command, after a period of time set with parameter θ 2, the control unit signals a 5 second warning with the flashing light (regardless of the parameter θ 5), and then the barrier closes.

If the barrier is stopped by the obstacle detection system during a closure manoeuvre, the barrier closes after a period of time set with parameter 82.

If the barrier is stopped by the obstacle detection system during an opening manoeuvre, the barrier closes after a period of time set with parameter 82.

Safeguarded closure/opening activation time setting N.B.: this parameter is not visible if the value of parameter B ! = 0.0.

- □2-9□ Wait time settable from 2 to 90 s.
- 92-99 Wait time settable from 2 to 9 min.

∂∃ **∂∂** Parking access mode selection

N.B.: If enabled with values 0.1, 0.2 or 0.3, photocell activation during a closing manoeuvre will always trigger a reopening manoeuvre unless parameter 0.4 0.1 is set. Parameters 0.4 0.7 is set. Parameters 0.

For more information, see chapter 12 "Examples of applications in parking access mode".

Disabled. Parameter 84 is not visible.

Bi-directional mode with immediate closure.

When entering and leaving the parking area, the barrier is opened with an AP open command. Once the vehicle has crossed the barrier and released contact FT (NC) (e.g. from magnetic loop), the barrier closes immediately.

When parameter Z = 0.0, the barrier open and remains open until the vehicle has completed the passage. If the vehicle moves back, the barrier remains open.

NOTE: it is possible to add further 5 s delay before closing, setting R5 99.

Directional mode 1.

When entering the parking area, the barrier is opened with an AP open command. Once the vehicle has crossed the barrier and released contacts FT (NC) and PED (NO), the barrier closes. When leaving the parking area, the barrier is opened by a PED command received from the magnetic loop. Once the vehicle has crossed the barrier and released contact FT (NC), the barrier closes.

When parameter 2 = 0.0, the barrier open and remains open until the vehicle has completed the passage. If the vehicle moves back, the barrier remains open.

NOTE: it is possible to add further 5 s delay before closing, setting A5 99.

Directional mode 2.

When entering, the barrier is opened with an AP open command, and closes after the automatic closing time set with parameter $\geq l$.

NOTE: in order to have the automatic closing, it is recommended to set parameter 2 I different to 00. When leaving the parking area, the barrier is opened by a PED command received from the magnetic loop. Once the vehicle has crossed the barrier and released contact FT (NC), the barrier closes. NOTE: it is possible to add further 5 s delay before closing, setting 85 99.

84 00 Enable close command after activation of photocell (FT) N.B.: this parameter is not visible if 83 00. Disabled. Enabled. The barrier stops if the photocell is activated during closing manoeuvre. The barrier resumes closing when the photocell is cleared. 85 00 Enable automatic open function with flat battery N.B.: This parameter is not visible for the SLAVE barrier. ΠΠ Disabled. Enabled. When the battery voltage drops below 21 V DC, the barrier opens after a 5 second 🗓 📗 pre-manoeuvre flashing warning. No further command signals are accepted until mains power is restored. Enabled. When the battery voltage drops below 22 V DC, the barrier opens after a 5 second DP pre-manoeuvre flashing warning. No further command signals are accepted until mains power is restored.

90 00 Restoring factory default values

is restored.

NOTE This procedure is only possible is NO data protection password is set.

N.B.: This parameter is not visible for the SLAVE barrier.



Warning! Restoring default settings cancels all settings made previously except for parameters AD and A B: after restore, check that all parameters are suitable for the installation. The default factory settings may also be restored using the + (PLUS) and/or - (MINUS) buttons as follows:

Enabled. When the battery voltage drops below 23 V DC, the barrier opens after a 5 second pre-manoeuvre flashing warning. No further command signals are accepted until mains power

- Turn off the power.
- Press and hold the + (PLUS) and (MINUS) buttons until the unit switches on.
- The message ~E5- flashes on the display after 4 s.
- The default factory settings have now been restored.

	Identification number The identification number consists of the values of the parameters from $n\Omega$ to $n\Delta$. N.B. : The values shown in the table are indicative only.	
n001	HW version	
n123	Year of manufacture	
n245	Week of manufacture	
n3 67		Example: 0 1 23 45 67 89 0 1 23 45
n4 89	Serial number	
n5 01		
n 6 23	FW version	
n7 45	RS485 serial communication version	

	View manoeuvre counter The number consists of the values of the parameters from all to all multiplied by 100. N.B.: The values shown in the table are indicative only.
oΠ 01	
00 23	Manoeuvres performed Example: 0 23 45 x100 = 1,234,500 manoeuvres
0145	
	View manoeuvre hour counter

View manoeuvre hour counter The number consists of the values of the parameters from h□ to h l. N.B.: The values shown in the table are indicative only. Manoeuvre hours Example: □ l ≥3 = 123 hours

	View control unit days on counter The number consists of the values of the parameters from d0 to d1. N.B.: The values shown in the table are indicative only.
d0 0	Days with unit switched on
d123	Example: 0 23 = 123 days

PasswordSetting a password prevents unauthorised persons from accessing the settings. With password protection active (EP=DI), parameters may be viewed but the values CANNOT be modified. Only a single password is used to control access to the barrier automation system.

WARNING: Contact the Technical Support Service if you lose your password. **N.B.:** This parameter is not visible for the SLAVE barrier.

P 1 00 P2 00 P3 00 P4 00

Password activation procedure:

- Enter the desired values for parameters P 1, P2, P3 and P4.
- Use the UP▲ and/or DOWN▼ buttons to view parameter £P.
- Press and hold the + and buttons for 4 seconds.
- The display flashes to confirm that the password has been saved.
- Switch the control unit off and on again. Check that password protection is activated (□P=□ 1).

Temporary unlock procedure:

- Enter the password.
- Check that EP=00.

Password cancellation procedure:

- Enter the password ([P=00]).
- Save the values P 1, P2, P3, P4 = 00
- Use the UP▲ and/or DOWN▼ buttons to view parameter *ΓP*.
- Press and hold the + and = buttons for 4 seconds.
- The display flashes to confirm that the password has been cancelled (the values P 100, P200, P300 and P400 and indicate that no password is set).
- Switch the control unit off and on again ([P=00]).

CP 00	Password change protection
00	Protection deactivated.
01	Protection activated.

12 Commands and Accessories



If not installed, safety devices with NC contacts must be jumpered at the COM terminals, or disabled by modifying the parameters 50, 51 and 73.

For installations with two opposed barriers, connections for command signals and accessories must be made on the MASTER controller. The sensing edge and, if used, the STOP command signal must be connected to the SLAVE controller.

KEY:

N.A. (Normally Open). N.C. (Normally Closed).

N.C. (Normally C		ciosea).		
CONTACT		DESCRIPTION		
11(+SC)	10(COM)	Barrier open/closed indicator lamp, 24 V DC 3 W. The function of the indicator lamp is determined by parameter AB .		
11(+SC)	13(COM)	Photocell test function and/r battery saving mode connection (fig. 6-7). The power feed for the photocell transmitters (TX) may be connected to terminal $11(SC)$. Set the parameter $RB \ D \ $ to enable the test function. Each time a command is received, the controller unit switches the photocells off and on to check that the contact changes state correctly. Power feeds for all external devices (excluding the external radio receiver) may be connected to reduce battery consumption (if batteries are used). Set $RB \ D \ $ d or $RB \ D \ $ 4. In the case of installations with two opposed barriers, the functions are not available for the SLAVE barrier. WARNING! If contact $11(SC)$ is used for the photocell test function or battery saving function, a barrier open indicator lamp cannot be connected.		
12(+LIGHTS)	13(COM)	Input for connecting AG/ALED series signal lights on boom (optional). 24 V DC 12W max.		
14(+24V)	13(COM)	Power feed for external devices, max. 10W. See technical specifications.		
15(+ES)	17(COM)	Input for connecting electric block. See technical specifications.		
16(+LAM) 17(COM)		Connection for flashing light (24 V DC - max. 5 W). The settings for the pre-manoeuvre flashing warning signal may be selected with parameter β 5, while the flashing mode is set with parameter β 8.		
18(COM)-19(LNA)-20(LNB)		for installation of two MASTER / SLAVE opposing barriers (from firmware version nb 13 or later). Connections.		
		Connect the COM-LNA-LNB terminals of the MASTER barrier to the relative terminals of the SLAVE barrier. The MASTER barrier is the barrier which opens (completely) when the partial open command (PED) is received. Set parameter RD for the MASTER barrier and parameter RD for the SLAVE barrier.		
		All command signals, the photocells and the main STOP command must be connected to the MASTER barrier. Sensing edges must be connected to the respective barriers.		
		An auxiliary STOP command signal may also be connected to the SLAVE barrier. If not used, jumper terminals 21(ST)-22(COM) on the SLAVE controller.		
		All parameters except for AD and 73 must be set on the MASTER controller.		
		The travel acquisition procedure must be performed for both barriers, after setting the parameters as required and in accordance with the type of installation.		
		Alarm messages are viewable on the displays of the respective controllers.		

CONTACT	DESCRIPTION
18(COM)-19(LNA)-20(LNB)	Function.
WS 21 220 WS 21 21	Serial communication enables synchronised operation of the two barriers. The obstacle detection system immediately reverses the direction of the boom which detected the obstacle, while the other boom reverses after a fixed delay. If the MASTER barrier is completely open or completely closed and the SLAVE
	barrier is in an intermediate position, the MASTER barrier sends a re-alignment command to the SLAVE barrier, with a 5 second pre-manoeuvre flashing warning signal.
	Conversely, if the MASTER barrier is an intermediate position, after 5 seconds of inactivity, it re-aligns with the SLAVE barrier.
	The alignment function is disabled if the "operator present" function $\beta 7 - \beta 1$ is enabled.
21(ST) 22(COM)	STOP command input (NC). The current manoeuvre is arrested if the safety contact opens. N.B.: the controller is supplied with this contact already jumpered by ROGER
	TECHNOLOGY. In the case of installations with two opposed barriers, if the STOP command signal is given for the MASTER barrier, both barriers stop. If the STOP command
	signal is given for the SLAVE barrier, only the SLAVE barrier stops.
23(COS) 22(COM)	Input (NC or 8.2 kOhm) for connecting sensing edge COS . Movement is reversed (open) if the sensing edge is activated during closure. If the sensing edge is not installed, jumper the terminals 23(COS)-22(COM) or set parameter 73 00.
	In the case of installations with two opposed barriers, the sensing edge (if installed) must be connected to and configured for both the MASTER barrier and the SLAVE barrier.
24(FT) 13(COM)	Input (NC) for connecting photocell FT (fig. 4-5). The photocells are configured by default with the following settings: - 50 00 . Photocell triggers only during barrier closure. Photocell is ignored during barrier opening manoeuvre. - 5102. Movement is reversed if the photocell is triggered during barrier closure. - 52 01. The barrier opens when an open command is received if the photocell FT is obstructed. If the photocells are not installed, jumper the terminals 24(FT) - 25(COM) or set the parameters 50 00 and 5 100. WARNING! Use G90/F4ES or T90/F4S photocells.
	In the case of installations with two opposed barriers, the photocells must be connected to and configured for the MASTER barrier only. In the case of installations with parking mode, the input FT may be used to receive a closing command from a magnetic loop (NC) (see chapter 12).
27 26(ANT)	Antenna connector for slot-in radio receiver board. Use RG58 if an external antenna is used - maximum recommended length: 10 m. N.B. : do not make joints in cable.
29(PED) 28(COM)	Partial open command input (NO).
	The barrier is always opened completely when the contact is closed. In the case of installations with two opposed barriers, the command PED only opens the MASTER barrier when both barriers are completely closed. In the case of installations with "Directional" parking mode (parameter 83 02 or 83 03), the input PED may be used to receive a closing command from a magnetic loop (NC) (see chapter 12).
30(PP) 28(COM)	Step mode command input (NO).
	The function of this command is determined by parameter A4.

CONTACT	DESCRIPTION		
31(CH) 28(COM)	Close command input (NO).		
32(AP) 28(COM)	Open command input (NO).		
33(ORO) 34(COM)	Clock timer contact input (N.O.). When the clock function is active, the barrier opens and remains open. At the end of the programmed time set with the external device (clock) the barrier closes.		
ENC1	7-way connector for connecting to encoder installed on motor (see fig. 9-10). WARNING! Always disconnect from electrical power before disconnecting or connecting the encoder cable.		
ENC2	6-way connector for connecting to encoder installed on one side of motor (see fig. 9-10). WARNING! Always disconnect from electrical power before disconnecting or connecting the encoder cable.		
LED LIGHT	Connector for the (OPTIONAL) AG/EXP signal device connection and flashing lights installed on the top cover (see fig. 11-12).		
LOCKS	Connectors for connecting lock device microswitch and safety stop microswitch on barrier inspection hatch (see fig. 8). Jumper the other connector if only one connector is connected.		
RECEIVER CARD	Connector for slot-in radio receiver board. The controller has two radio remote control functions by default: PR1 - step mode command (modifiable with parameter 75). PR2 - close command (modifiable with parameter 77).		
B71/BCHP BI/BCHP BATTERY CHARGER AG/BAT/KIT BI/BAT/KIT BATTERY KIT 2x12 Vdc 4.5 Ah (AGM type ONLY)	Connector for slot-in battery charger board. In the event of a mains power loss, the controller unit is powered by the batteries. When battery power is used, the message bALL is shown on the display and the flashing light flashes briefly at intervals until mains power is restored or until the battery voltage drops below the minimum permissible limit. In this case, bLLO (Battery Low) is shown on the display and the controller unit accepts no commands. If mains power is lost while the boom is moving, the boom stops and then automatically resumes the interrupted manoeuvre after 2 seconds. Setting a value for parameter 85 other than DO enables automatic opening when the battery voltage drops below the safety limit. Once the boom reaches the completely open position, the boom remains open and the controller accepts no further commands until mains voltage is restored. In the case of installations with two opposed barriers, the battery charger must be connected to both barriers. Parameter 85 is not available for SLAVE automation systems. WARNING! the batteries must always be connected to the electronic controller unit in order to charge. Periodically (at least every 6 months), check that the batteries are in good working order. For more information, refer to the installation manual for the B71/BCHP or BI/BCHP battery charger.		

13 Examples of applications in parking access mode.

The AG/CTRL controller manages the system in parking access mode.

This function is enabled with parameter 83.

N.B.: the input FT cannot be disabled in the following operating situations. If the contact (NC) is opened during a closing manoeuvre, the barrier reopens and remains open until the contact is closed again.

The automatic closing time is enabled if parameter 2l is different to 00. Adjust an automatic closing time that allows the vehicle to complete the crossing.

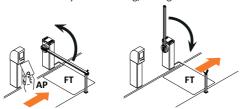
• Bi-directional mode with immediate closure (83 □ 1)

When entering and leaving the parking area, the barrier is opened with an AP open command (terminal block).

Once the vehicle has crossed the barrier and released contact FT ((NC) (e.g. from magnetic loop), the barrier closes immediately.

When parameter 2 = 0.0, the barrier open and remains open until the vehicle has completed the passage. If the vehicle moves back, the barrier remains open.

NOTE: it is possible to add further 5 s delay before closing, setting R5 99.

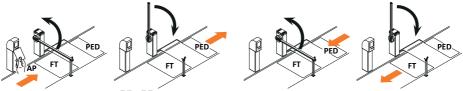


• Directional mode 1 (83 02)

When entering the parking area, the barrier is opened with an **AP** open command (terminal block). Once the vehicle has crossed the barrier and released contacts **FT** (NC) and **PED** (NO), the barrier closes. When leaving the parking area, the barrier is opened by a **PED** command received from the magnetic loop. Once the vehicle has crossed the barrier and released contact **FT** (NC), the barrier closes. When parameter Z = U, the barrier open and remains open until the vehicle has completed the passage. If

When parameter 2 = 0.0, the barrier open and remains open until the vehicle has completed the passage. If the vehicle moves back, the barrier remains open.

NOTE: it is possible to add further 5 s delay before closing, setting A5 99.



Directional mode 2 (83 03)

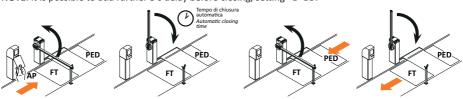
When entering, the barrier is opened with an AP open command (terminal block), and closes after the automatic closing time set with parameter ≥ 1.

NOTE: in order to have the automatic closing, it is recommended to set parameter 2 / different to 00.

When leaving the parking area, the barrier is opened by a **PED** (NO) command received from the magnetic loop.

Once the vehicle has crossed the barrier and released contact FT (NC), the barrier closes.

NOTE: it is possible to add further 5 s delay before closing, setting A5 99.



14 Safety input and command status (TEST mode)

With no currently active intentional commands, press the TEST button and check the following:

DISPLAY	POSSIBLE CAUSE	ACTION BY SOFTWARE	PHYSICAL CORRECTIVE ACTION
88 - 5 (rs)	MASTER barrier not moving. STOP contact of MASTER bar- rier open (message visible for SLAVE bar- rier).	-	Check STOP button/contact on MASTER controller. Install a STOP button (NC) or jumper the ST contact with the COM contact of the MASTER controller.
	Safety STOP contact open.	-	Check the STOP button/contact. Install a STOP button (NC) or jumper the ST contact with the COM contact.
8821	Release device open.	-	Lock by turning the key two complete turns clockwise. Check that the microswitch contact is connected correctly.
	Barrier inspection hatch open.	-	Close the barrier inspection hatch. Check connection to microswitch.
88 23	Sensing edge COS not connected or incorrectly connected.	Set the parameter 7300 if not used or to disable.	If not used jumper contact COS with contact COM.
88 24	Photocell FT not connected or incorrectly connected.	Set parameters 50 00 and 5 1 00 if not used or to disable.	If not used jumper contact FT with contact COM. Check connection referring to relative connection diagram (figures 4-5).
PP 00	If occurs with no voluntary command, the contact may	-	Check PP - COM contacts and connections to button.
CH 00	be faulty or one of the buttons may be incorrectly connected.	-	Check CH - COM contacts and connections to buttons.
AP 00		-	Check AP - COM contacts and connections to button.
PE 00		-	Check PED - COM contacts and connections to button.
0 -00	If occurs with no command, the contact may be faulty or the timer may be incorrectly connected.	-	Check contacts ORO - COM. Do not jumper this contact if not used.

 $\textbf{N.B:}\,\, \text{press TEST to exit TEST mode}.$

We recommend troubleshooting safety device and input status errors with "corrective action by software" only.

15 Alarms and faults

PROBLEM	ALARM SIGNAL	POSSIBLE CAUSE	CORRECTIVE ACTION
	POWER LED off	No power.	Check power cable.
	POWER LED off	Fuses blown.	Replace fuse. Always disconnect from mains power before removing and refitting fuses.
	FUSE	Fuse F1 blown or damaged. This message is not visible if controller is in battery power mode.	
	OF SŁ	fault.	Disconnect from mains power, wait 10 seconds then reconnect to the mains and switch on. We recommend replacing the control unit if the problem persists.
	Pr Ot	Overcurrent detected in inverter.	Press the TEST button twice or perform 3 command requests in succession.
	560	Incorrect connection between SEC1 and SEC2 of the transformer.	Swap the connection between SEC1 and SEC2.
	dR ER	Travel data acquisition error.	Check that the spring is balanced correctly with the barrier unlocked. Press TEST and check if any safety devices are in alarm state. Repeat acquisition procedure.
		Calibration procedure failed.	Allow the indicated calibration times to elapse during self-acquisition. Check that $PHB5$ is shown flashing on the display before closing the release lock cover. Repeat acquisition procedure.
The barrier does not open or close.		Automation system position selection modification message with parameter 7 <i>I</i> .	SX DX
			Motors for barriers are factory configured for right hand opening barriers 7 1 1 (position of barrier relative to passage seen from inspection hatch side). If the position is changed and message dHŁ fl is displayed: • Move the boom 45° degree. • Adjust the spring position correctly for the required opening direction. • Press and hold PROG until dHŁ fl disappears and fPP- appears on the display. Repeat acquisition procedure.
	Not	Motor not connected.	Check the motor cable.
	Example: 2 I E E 33 E E	Configuration parameter error.	Set configuration value correctly and save.
	StoP	Release device open.	Lock by turning the key two complete turns clockwise.
	flashing	Barrier inspection hatch open.	Close the inspection hatch correctly.
	, and the second	STOP button/contact active for more than 5 s.	Check connections to STOP button.
	EnE I	Encoder 1 not connected.	Check connection to encoder. Replacing the encoder is recommended if the problem persists.
	EnE2	Encoder 2 not connected.	Check connection to encoder. Replacing the encoder is recommended if the problem persists.

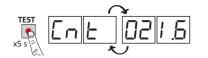
Fine B Severe encoder 2 malfunction. Fress TEST button, If the error code is displayed again, switch off the controller unit, wat 5 seconds and switch on again. Replace the encoder if the problem persists. Fine B Encoder 1 malfunction. Fress TEST button, If the error code is displayed again, switch off the controller unit, wait 5 seconds and switch on again. Replace the encoder if the problem persists. Operation in battery mode. Enc B Encoder 2 malfunction. Press TEST button or perform 3 command requests in succession. Replace the encoder if the problem persists. Operation in battery mode. Enc B Enc B Encoder 2 malfunction. Press TEST button or perform 3 command requests in succession. Replace the encoder if the problem persists. Operation in battery mode. Enc B Enc B Enc B Encoder 2 calculation error. Encoder 2 calculation error. Encoder 2 calculation error. Encoder 2 calculation error. Repeat acquisition procedure. Encoder 2 last batteries. Wait for mains power to be restored. CODT I last batteries. Wait for mains power to be restored. CODT I last batteries. Wait for mains power to be restored. CODT I last batteries. CODT I last batteries. CODT I last batteries. Wait for mains power to be restored. CODT I last batteries. CODT I last batteries. CODT I last batteries. Wait for mains power to be restored. CODT I last batteries. CODT I last batteries. Wait for mains power to be restored. CODT I last batteries. CODT I last batteries. CODT I last batteries. Wait for mains power to be restored. CODT I last batteries. CODT I last batteries. Wait for mains power to be restored. Check connection to terminals COM-LNA-LNB. therefore receive washing the problem persists. The stall do no both MAS-TER and SLAVE. CODT I last batteries. CODT I last batteries therefore last last on position with parameter does no	PROBLEM	ALARM SIGNAL	POSSIBLE CAUSE	CORRECTIVE ACTION
EnES (EnES) Encoder 1 malfunction. Press TEST button or perform 3 command requests in succession. Replace the encoder if the problem persists. Doperation in battery mode. EnEB Encoder 2 malfunction. Press TEST button or perform 3 command requests in succession. Replace the encoder if the problem persists. Batteries almost flat. Repeat acquisition procedure. Encoder 2 calculation error. Encoder 2 calculation error. Encoder 2 calculation error. Encoder 2 calculation error. Inverter overheat protection triggered. Inverter overheat protection triggered. No RS485 serial communication. No RS485 serial communication. No RS485 serial communication. Check settings of parameter R0. Check connection to terminals COM-LNA-LNB. TER and SLAVE. Controller unit models not compatible. Check parameter on. Check parameter on. Check parameter on. Barrier does not perform 3 command requests in succession. Replace the encoder if the problem persists. Check settings of parameter R0. Check connection to terminals COM-LNA-LNB. TER and SLAVE. Controller unit models not compatible. Check parameter on. Check parameter on. Barrier does not perform 3 command requests in succession. Replace the encoder if the problem persists. Check connection to terminals COM-LNA-LNB. TEST button pressed accidenting of parameter R1. Check parameter n. Berpate acquisition procedure. TEST button pressed accidenting of parameter R1. Check parameter n. Check parameter n. Berpate acquisition procedure. Check connections of safety devices. Repeat acquisition procedure. Check parameter 1. Repeat acquisition procedure. Incorrect setting of parameter R1. Incorrect setting of parameter R1. Check connections of safety devices. Repeat acquisition proced		EnE3	Severe encoder 1 malfunction.	again, switch off the controller unit, wait 5 seconds and switch on again. Replace the encoder
Departion in battery mode. EnEB Encoder 2 malfunction. Operation in battery mode. EnCO = Encoder 2 malfunction. Operation in battery mode. EnCO = EnCO		EnEY	Severe encoder 2 malfunction.	again, switch off the controller unit, wait 5 seconds and switch on again. Replace the encoder
Ene 6 Encoder 2 malfunction. Operation in battery mode. Ene 7 Encoder 1 calculation error. Ene 8 Encoder 2 calculation error. Ene 9 Encoder 2 calculation error. Ene 9 Encoder 2 calculation error. Encoder 3 calculation error. Encoder 4 calculation error. Encoder 4 calculation error. Encoder 4 calculation error. Encoder 4 calculation error. Encoder 5 calculation error. Encoder 6 calculati		EnES (EnES) Encoder 1 malfunction.	quests in succession. Replace the encoder if
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PROBLEM	ALARM SIGNAL	POSSIBLE CAUSE	CORRECTIVE ACTION
Barrier open indicator lamp does not work.		Bulb blown or wires disconnected.	Check the bulb and/or wires.

N.B.: Press the TEST button to temporarily cancel the alarm.

The next time a command is received, the alarm reappears on the display if the problem has not been resolved.

16 Procedural verifications - INFO Mode







TO QUIT THE INFO MODE



INFO mode may be used to view certain parameters measured by the **AG/CTRL** controller. Press and hold the TEST button for 5 seconds from the "View command signals and safety devices" mode with the motor stationary. The controller displays the following parameters in sequence:

Parameter	Function
r3.25	View for 3 s the firmware version of the control unit.
Ent	View barrier position (ENCODER data) at time of test, in motor revolutions. (example: $D2 1.6$ = barrier installed on the right; $-2 1.6$ = barrier installed on the left).
Lun	View total length of programmed travel, in motor revolutions (e.g.: $\Box \exists 7.8 = 37.8$ motor revolutions).
rPΠ	View motor speed, in revolutions per minute (rPM).
A∏P	View current absorption of motor, in Amperes (e.g.: 0 /5.5 = 16.5 A). If the motor is stationary, the current absorption value is 0.
6U 5	System OK indicator. To check for overloading (e.g.: too many utilities connected to 24 V output) or if the mains voltage is too low, compare the parameters read with values indicated as follows with the motor stationary: mains voltage = 230 V AC (nominal), bUS= 28.5 mains voltage = 207 V AC (- 10%), bUS= 25.5 mains voltage = 253 V AC (+ 10%), bUS= 31.6
Eln	Indicates time taken by motor to detect an obstacle, as set with parameter $\exists l$, in seconds. E.g. $l.\Box\Box\Box = 1 \text{ s} / \Box . l \Box\Box = 0.12 \text{ s}$ (120 ms). Ensure that the manoeuvre time is more than 0.3 s.
OC	Indicates the state of the automation system (open/closed). DE DP automation system opening (motor active). DP EL automation system closing (motor active). DP - D automation system completely open (motor not actives). DP - L automation system completely closed (motor not actives).
DΕ	Indicates activation of the obstacle detection system. DEI obstacle detection activated.
UF	UF U mains voltage too low or overload. UF .H motors overcurrent. UF _5 malfunction detected, reduce acceleration and speed settings, and check spring setting.

- Use the + / buttons to scroll through the parameters. When the last parameter in the sequence is reached, press the button to return through the previous parameters.
- In INFO mode, the automation system may be activated to test operation in real time.
- Press and hold the TEST button for a few seconds to exit INFO mode.

17 Mechanical release

In the event of a fault or mains power loss, the barrier may be released and opened manually (see the release instructions in the user manual for the AGILIK or BIONIK automated system).

If the barrier is unlocked while the controller is powered, the message 5½0P flashes on the display until the barrier is locked again.

The flashing light and the signal lights (if installed) illuminate if the boom is moved manually.

If a "ventouse" electric lock is installed, unlocking the barrier cuts off the power supply, making it possible to move the boom manually.

The barrier resumes normal operation once the release system is locked again.

18 Initial testing

- Turn on the power supply.
- · Perform travel acquisition.
- Set acceleration, speed and deceleration values. Check that the values are correct for the installation type. The boom must approach the mechanical stop at low speed, and then press gently against the stop to hold the boom in the closed position. Setting a value between 11 and 13 for parameter 42 ensures that the boom approaches and arrests against the stops slowly without vibration. For booms up to 4 m in length, values between 15 and 18 are recommended for parameters 43 and 44. Set higher values for booms measuring 6 m in length.
- Check that all connected controls are working correctly.
- Check that the release device functions correctly. The message 5£0P must flash on the display.
- Check that the impact force is correct.
- · Check that the safety devices are activated correctly.
- If the battery kit is installed, disconnect from mains and check that the batteries are working.
- Disconnect from mains power and disconnect the batteries (if used), then reconnect. With the barrier stopped in an intermediate position, check that the manoeuvre is performed correctly.
- Check that the mechanical stops are set correctly. Repeat the travel acquisition procedure after each adjustment.
- In the case of installations with two opposed barriers, request a manoeuvre and check that both barriers function correctly.
- If a "ventouse" electric lock is used, check that when the boom is completely closed the lock activates and the boom cannot be lifted from the fixed end rest with integrated magnet.

19 Maintenance

Perform scheduled maintenance every 6 months.

Check cleanliness and function.

If the unit contains dirt, moisture, insects or other foreign matter, disconnect from mains power and clean the board and the housing.

Repeat the initial installation test procedure after cleaning.

If any corrosion is found on the printed circuit board, evaluate if it is necessary to replace the board itself. Make sure the batteries are in good working order (if installed).

20 Disposal



This product may only be uninstalled by qualified technical personnel, following suitable procedures for removing the product correctly and safely.

This product consists of numerous different materials.

Some of these materials may be recycled, while others must be disposed of correctly at the specific recycling or waste management facilities indicated by local legislation applicable for this

category of product.

Do not dispose of this product as domestic refuse.

Observe local legislation for differentiated refuse collection, or hand the product over to the vendor when purchasing an equivalent new product.

Local legislation may envisage severe fines for the incorrect disposal of this product.

Warning! some parts of this product may contain substances that are harmful to the environment or dangerous and which may cause damage to the environment or health risks if disposed of incorrectly.

21 Additional information and contact details

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This instruction manual and the warnings for the installer are given in printed form and included in the box containing the product.

The digital version of this documentation (in PDF format) and all future revisions are available from the reserved area of our website www.rogertechnology.com/B2B, in the section 'Self Service'.

ROGER TECHNOLOGY CUSTOMER SERVICE:

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08:00 to 12:00 - 13:30 to 17:30

+39 041 5937023 Telephone no:

E-mail: support@rogertechnology.it Skype: support_rogertechnology

To request support for any problems or for any other queries regarding the automation system, please compile the online form "REPAIRS" in the 'Self Service' area of our website www.rogertechnology.com/B2B.

22 Declaration of Conformity

I the undersigned, as acting legal representative of the manufacturer:

Roger Technology - Via Botticelli 8, 31021 Bonisiolo di Mogliano V.to (TV)

hereby DECLARE that the appliance described hereafter:

Description: Controller unit for automatic barriers

Model: AG/CTRL

Is conformant with the legal requisites of the following directives:

- 2006/42/EC:
- -2004/108/EC;
- -2011/65/EC

and that all the standards and/or technical requirements indicated as follows have been applied: EN 61000-6-3: EN 61000-6-2.

Last two figures of year in which marking was applied $C \in 14$.

Place: Mogliano V.to Date: 14-01-2014 Signature Horian Di



