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PROGRAMMING MANUAL AUTO-PROG ADVANCED PROGRAMMER FOR AUTO ENTRYCONTROL OPERATORS



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1. AUTO-PROG

1.1 INSTALLATION AND CONNECTIONS



CARRY OUT THE FOLLOWING OPERATIONS WITH THE POWER SUPPLY DISCONNECTED

1. Disassemble the parts (Fig. 1).

2. Break the cable passage insert as needed.



Referencing Fig.2, the AUTO-PROG is designed for the cables to enter from the back (1) or from underneath (2).

3. The AUTO-PROG may be used as a handheld device or fixed to a surface. If a fixed location is desired, determine the position and attach it using the slotted mounting holes & suitable screws (Fig. 1 (1)).

4. Connect the AUTO-PROG to the AutoEntryControl I/O board using a 4 pair twisted U/UTP AWG24 cable with a maximum length of 164 feet (Fig. 3). Be careful to observe polarity!



An optional key switch device may be connected between terminals G and K in order to enable/ disable the AUTO-PROG.

5. Reassemble the parts indicated in (Fig. 1).





1.2 SWITCHING ON AND THE HOME SCREEN

 Turn power on to the AutoEntryControl
 The display will momentarily show the following in sequence:



in which the Bootloader version appears, then



in which the firmware version appears, and lastly



The content of this home screen is explained below in Figure 4 below.

3. The 4 buttons are used to select controls that, depending on the screen, appear on the display above them.

4. By pressing the relative button on the home screen (Fig. 4) you can:

C = set the NIGHT mode

🖑 = set the MANUAL mode

- switch to the FUNCTIONS menu that includes all the AutoEntryControl conguration parameters.

 - = switch to the SELECTION menu that includes additional operating modes.

> By pressing the button to set the NIGHT or MANUAL mode, the relative icon is highlighted and the description of the operating mode is updated on the display. Once NIGHT or MANUAL mode has been set by pressing the respective button, press it again to return to the previous mode.



1.3 SELECTION MENU

To access the SELECTION menu from the home screen, press the \rightarrow button (Fig. 5).

Four new icons appear on the display that define the operating modes that can be set. The possible combinations can be obtained by pressing the corresponding buttons (Fig. 5). After having set the operating mode, press the OK button to confirm and return to the home screen.



The description of the operating mode on the display is updated with the description of the one that has been set in the selection menu.



1.4 FUNCTIONS MENU

To access the FUNCTIONS menu from the home screen, press the *Section* button (Fig. 6). The display prompts for a 4-digit password to be entered.



The factory-set password is: 0000

- Set the first pw digit using the
- Confirm using the OK button to move to the next digit.

When all 4 digits have been entered, if the password is correct, access the FUNCTIONS menu on the right.
Select the item from the menu using the and

- buttons.
- Confirm using the OK button to enter.



Press ESC at any time to return to the home screen.

and

buttons.

All the possible menu functions are shown on the next few pages (see Table A). A description of each menu option is detailed following Table A, in Section 1.5.





	TABLE A.	AUTO-PF	ROG FUNCTIONS Menu		
1	LANGUAGE				
	1 ITALIANO)			
	2 ENGLISH				
	3 FRANCAI	IS			
	4 DEUTSCH	1			
	5 ESPANOL	L			
	6 NEDERLA	ANDS			
2	2 PROGRAMMIN				
	I IN	11 FUISII-10	19		
				NORMALLY OPENED / NORMALLY CLOSED	
				NORMALLY OPENED / NORMALLY CLOSED	
			7 AUTOMATIC OPEN	NORMALLY OPENED / NORMALLY CLOSED	
			8 SEMIAUTOM. OPEN	NORMALLY OPENED / NORMALLY CLOSED	
			10 KEY	NORMALLY OPENED / NORMALLY CLOSED	
			11 PARTIAL OPEN	NORMALLY OPENED / NORMALLY CLOSED	
			20 CLOSING SAFETY	NORMALLY OPENED / NORMALLY CLOSED	TEST ENABLED / DISABLED
			21 OPENING SAFETY	NORMALLY OPENED / NORMALLY CLOSED	TEST ENABLED / DISABLED
			22 OVERHEAD PRES. SENS	NORMALLY OPENED / NORMALLY CLOSED	
			30 EMERGENCY OPEN	NORMALLY OPENED / NORMALLY CLOSED	
			31 EMERGENCY OPEN WITH MEM	NORMALLY OPENED / NORMALLY CLOSED	
			34 EMERGENCY CLOSE	NORMALLY OPENED / NORMALLY CLOSED	
			35 EMERGENCY CLOSE WITH MEM	NORMALLY OPENED / NORMALLY CLOSED	
			36 FIRE ALARM	NORMALLY OPENED / NORMALLY CLOSED	
				NORMALLY OPENED / NORMALLY CLOSED	
				NORMALLY OPENED / NORMALLY CLOSED	
				NORMALLY OPENED / NORMALLY CLOSED	
				NORMALLY OPENED / NORMALLY CLOSED	
				NORMALLY OPENED / NORMALLY CLOSED	
			44 MANUAL	NORMALLY OPENED / NORMALLY CLOSED	
			45 PARTIAL	NORMALLY OPENED / NORMALLY CLOSED	
			46 INTERBLOCK ON	NORMALLY OPENED / NORMALLY CLOSED	
	2 01		60 IIMER		
	2 00	013 01/0	02		
		vi	0 DISABLED		
			1 GONG	NORMALLY OPENED / NORMALLY CLOSED	
			2 EBBOR	NORMALLY OPENED / NORMALLY CLOSED	
			A EMERGENCY ACTIVATE	NORMALLY OPENED / NORMALLY CLOSED	
			5 TEST	NORMALLY OPENED / NORMALLY CLOSED	
				NORMALLY OPENED / NORMALLY CLOSED	
				NURMALLT UPENED / NURMALLT CLUSED	
					CLOSED
				NORMALLY OPENED / NORMALLY CLOSED	CLOSED
			TT CLUSING SAFETY	NORMALLY OPENED / NORMALLY CLOSED	
			IZ SAFETIES	NORMALLY OPENED / NORMALLY CLOSED	
	3 06	P/CLRFLAV			
	5 01	NOR	MALLY OPENED / NORMALLY CLOSED		
	4 EX	TERNAL SEL	ECTOR		
		POSI	TION 1POSITION 2		
			0 DISABLED		
			1 NIGHT		
			2 OPENED		
			3 EXIT ONLY		
			4 MANUAL		

2 MOTION		
1 OPENING2 CLOSING		
1 SPEED	110	
2 SLOWDOWN	SLOWDOWN SPACE 0°90° S	LOWDOWN SPEED 13
3 STRENGTH	010	
4 STRENGTH DURATION	0.13.0 s	
5 ACCELERATION	110	
6 DECELERATION	110	
3 TIMING		
1 PAUSETIME	030 s	
2 PAUSETIME	030 s	
3 NIGHT PAUSE TIME]	090 s	
4 NIGHT SENSOR NIGHT	0 90 s	
	0	
DISABLED		
NIGHT		
EXIT ONLY		
	0 60 tenths of a second	
2 RELEASE TYPE		
WHEN OPENING		
CLOSED		
S INSTALLATION		
1 ARM TYPE		
SKID		
ARTICULATE		
2 SENSOR TYPE		
DOOR MOUNTED SYSTEM	1	
OPS AND BEAM		
3 START SETUP	ARE YOU SURE ?	
4 PUSH AND GO		
0 DISABLED		
1 ENABLED		
2 FAST FOOD		
5 PARTIAL STOP SEC.		
DISABLED		
ENABLED		
6 LEAF DELAY	0°90°	
7 SCP		
DISARFD		
ENABLED		
O KEVERSE SIKUKE		
	IN1 IN2 01 02	
	INTINO 0102	
11 OTHER BOARD DATA	V MAIN V ACC POS L MOT	
6 INTERCOM		
1 FUNCTION		
DISABLED		
INTERMODE		
INTERLOCK	WITH MEMORY / WITHOUT MEMORY	
2 LEAVES	27.5	
2 LEAVES + INTERBLOCK	WITH MEMORY / WITHOUT MEMORY	
2 MASTER/SLAVE NR.		
3 INTERCOM REG.		
4 NODE LIST		

/ WIJCELLANEOUJ	
1 DEFAULT DEFAULT	
ACTIVATE	
NO	DO YOU WANT TO LOAD DEFAULT CONFIG ?
2 BOARD'S DISPLAY	
STOPPED	
NOT BLOCKED	
3 INTRUSION	
DISABLED	
ENARIED	
4 KPEVO KEY	
WITHOUT USER PSW	
PLOCK	
CLOSING	0 10
ODENING	0.10
	010
3 FRRORS	
The display shows any current errors	
4 WARNINGS	
the display shows any current warnings	
5 CYCLES COUNT	
1 CYCLES NUMBER	
ABSOLUTE	
RELATIVE	
2 MAINTENANCE	
MAINTENANCE DATE	MAINTENANCE CYCLES
3 CYCLES RESET ARE YOU SURE ?	resets the number of cycles
6 DATE/TIME	
1 SET DATE	
1 SET DATE 2 SET TIME	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED ENABLED	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED ENABLED 2 MONDAY	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED ENABLED 2 MONDAY 3 TUESDAY	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED ENABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY 5 THURSDAY	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY 5 THURSDAY 6 ERIDAY	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED ENABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY 5 THURSDAY 6 FRIDAY 7 SATURDAY	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED ENABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY 5 THURSDAY 6 FRIDAY 7 SATURDAY 8 SUNDAY	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED ENABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY 5 THURSDAY 6 FRIDAY 7 SATURDAY 8 SUNDAY	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED ENABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY 5 THURSDAY 6 FRIDAY 7 SATURDAY 8 SUNDAY 9 MON - SUN	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY 5 THURSDAY 6 FRIDAY 7 SATURDAY 8 SUNDAY 9 MON - SUN 10 MON - FRI	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY 5 THURSDAY 6 FRIDAY 7 SATURDAY 8 SUNDAY 9 MON - SUN 10 MON - FRI 11 JOLLY	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY 5 THURSDAY 6 FRIDAY 7 SATURDAY 8 SUNDAY 9 MON - SUN 10 MON - FRI 11 JOLLY 12 JOLLY SLOTS	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY 5 THURSDAY 6 FRIDAY 7 SATURDAY 8 SUNDAY 9 MON - SUN 10 MON - FRI 11 JOLLY 12 JOLLY SLOTS SLOT 1	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY 5 THURSDAY 6 FRIDAY 7 SATURDAY 8 SUNDAY 9 MON - SUN 10 MON - FRI 11 JOLLY 12 JOLLY SLOTS SLOT 1 SLOT 2	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY 5 THURSDAY 6 FRIDAY 7 SATURDAY 8 SUNDAY 9 MON - SUN 10 MON - FRI 11 JOLLY 12 JOLLY SLOTS SLOT 1 SLOT 2 SLOT 3	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY 5 THURSDAY 6 FRIDAY 7 SATURDAY 8 SUNDAY 9 MON - SUN 10 MON - FRI 11 JOLLY 12 JOLLY SLOTS SLOT 1 SLOT 2 SLOT 3 SLOT 4	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY 5 THURSDAY 6 FRIDAY 7 SATURDAY 8 SUNDAY 9 MON - SUN 10 MON - FRI 11 JOLLY 12 JOLLY SLOTS SLOT 1 SLOT 2 SLOT 3 SLOT 4 SLOT 5	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY 5 THURSDAY 6 FRIDAY 7 SATURDAY 8 SUNDAY 9 MON - SUN 10 MON - FRI 11 JOLLY 12 JOLLY SLOTS SLOT 1 SLOT 2 SLOT 4 SLOT 5 SLOT 6	
1 SET DATE 2 SET TIME 3 DAYLIGHT SAV TIME DISABLED ENABLED 7 TIMER 1 TIMER STATE DISABLED 2 MONDAY 3 TUESDAY 4 WEDNESDAY 5 THURSDAY 6 FRIDAY 7 SATURDAY 8 SUNDAY 9 MON - SUN 10 MON - FRI 11 JOLLY 12 JOLLY SLOTS SLOT 1 SLOT 2 SLOT 3 SLOT 4 SLOT 5 SLOT 6	

FUNCTION	1: 0 NO FUNCTI	ION
FUNCTION	V: 1 AUTO BIDIA	R TOTAL
FUNCTION	N: 2 AUTO OUT	TOTAL
FUNCTION	V: 3 AUTO BIDIE	R PARTIAL
FUNCTION	V: 4 AUTO OUT	PARTIAL
FUNCTION	V: 5 TOTALLY OF	PEN
FUNCTION	V: 6 PARTIAL OF	PEN
FUNCTION	V: 7 AUTO IN TO	JTAL
FUNCTION	V: 8 AUTO IN PA	ARTIAL
FUNCTION	V: 9 NIGHT	
FUNCTION	V: 10 PARTIAL N	IGHT
		BEGINNING hh:mm
		FND hh:mm
8 PASSWORD		
1 TECHNICIAN PSW		
CHANGE TEC PSW	REINSERT TEC PS	W NEW PSW INSERTED
2 USER PSW		
CHANGE USER PSW	REINSERT USER P	PSW NEW PSW INSERTED
9 INFO		
E950E BOOT VER	{ *.*	
E950E APP VEF	**	
KP EVO APP VEF	* *	

1.5 PROGRAMMING menu descriptions

 PROGRAMMING INPUTS/OUTPUTS INPUTS (I1 - I8) Each input can be set to NC or NO according to the device connected to it. The inputs on terminal board J5 of the I/O board can be configured with the following functions: Disabled No associated function. External open When activated, the door opens and remains open as long as the input is active. When released, the door waits for the pause time to elapse and then closes. This has no effect in the EXIT ONLY or NIGHT modes. Internal open When activated, the door opens and remains open as long as the input is active. When released, the door waits for the pause time to elapse and then closes. This has no effect in the ONLY IN or NIGHT modes. Automatic open When activated, the door opens and remains open as long as the input is active. When released, the door waits for the pause time to elapse and then closes. Automatic open When activated, the door opens and remains open as long as the input is active. When released, the door waits for the pause time to elapse and then closes. Active in the BI-DIRECTIONAL, EXIT ONLY and ONLY IN modes. This has no effect in the NIGHT mode. Semiautom. open When activated: if the door is not already open, it opens and remains open if the door is already open, it opens and remains open 	 Key When activated, the door opens and remains open as long as the input is active. When released, the door waits for the night pause time to elapse and then closes. Active in the BI-DIRECTIONAL, EXIT ONLY, IN ONLY and NIGHT modes. Partial open Only opens the master door when activated in the "2 leaves" mode. Closing safety When activated: If the door is closing, it reopens If the door is opening, it prevents it from closing If the door is opening, it has no effect Opening safety When activated: If the door is opening, it stops until it is released If the door is closing, it neopens (always total) and remains open as long as the input is active. When released, the door waits for the night pause time to elapse and then closes. Also active in NIGHT mode. Emergency open with memory When activated, the door opens (always total) and remains open as long as the input is active. When released, the door remains open as long as the input is active. When released, the door remains open as long as the input is active. When released, the door remains open as long as the input is active. When released, the door remains open as long as the input is active. When released, the door remains open as long as the input is active. When released, the door remains open as long as the input is active. When released, the door remains open as long as the input is active. When released, the door remains open as long as the input is active. When released, the door remains open as long as the input is active. When released, the door remains open until it is Reset Emergency close When activated, the door closes and remains closed as long as the
When activated:	open until it is Reset
- if the door is not already open, it opens and remains open	Emergency close
- if the door is already open, it closes	When activated, the door closes and remains closed as long as the
Active in the BI-DIRECTIONAL, EXIT ONLY and ONLY IN modes.	input is active. When released, the door returns to normal
This has no effect in the NIGHT mode.	operation.

Emergency close with memory

When activated, the door closes and remains closed as long as the input is active. When released, the door remains closed until it is Reset

Fire alarm

When activated, the door closes, regardless of the operating mode that has been set, with the lock kept in the released position. It has priority over any commands that may be active.

Always open

When activated, the ALWAYS OPEN mode is set.

Exit only

When activated, the EXIT ONLY mode is set.

Entry only

When activated, the ONLY IN operating mode is set.

Night

When activated, the NIGHT mode is set.

Manual

When activated, the MANUAL mode is set.

Partial

When activated, the PARTIAL mode is set.

Interblock ON

When activated, the INTERLOCK mode is set.

Timer

When activated, the TIMER mode is set.

OUTPUTS (01-02)

Each output can be set to NC or NO according to the device connected to it.

The outputs on terminal board J5 of the I/O board can be congured with the following functions:

Disabled

No associated function.

Gong

The output is activated and deactivated at 1-second intervals when the safety devices are engaged.

Error

The output is activated if there is an error.

Emrg. active

The output is activated when an Emergency is triggered.

Test

The output commands a FAILSAFE test on the inputs that are configured as safety devices on which the option of running a TEST before movement has been enabled.

Door not closed

The output remains active until the door is closed.

Door open

The output remains active as long as the door is open.

Door opening

The output remains active as long as the door is moving.

Light

The output is activated, for a programmable length of time, when the door is open in NIGHT mode.

Intrusion active

The output is activated when an intrusion is in progress (i.e. when an unexpected movement of the door from its closed position is detected).

Closing safety

The output is activated when a closing safety device is active. **Safeties**

The output is activated when a closing or opening safety device is engaged.

OP/CL RELAY

Specifies the logic of the door status relay (NC/NO). **EXTERNAL SELECTOR**

EXTERNAL SELEC

Specifies the operating mode associated with positions 1 and 2 of the selector on the side of the unit.

■ PROGRAMMING MOTION OPENING/CLOSING

Speed

Sets the speed of movement.

Slowdown

Specifies the space (in degrees of rotation of the AUTO shaft) and the deceleration speed (on 3 levels) of the door before reaching the final open / closed positions.

Strength

Specifies the maximum crushing force.

Strength duration

Specifies the maximum thrust time before an obstacle is recognized. Acceleration

Specifies how quickly the door reaches the set opening speed when starting from stop.

Deceleration Specifies how quickly the door stops.

■ PROGRAMMING TIMING PAUSE TIME

Defines the pause time of the door when opened by a command, before closing automatically.

PAUSE TIME P&G

Sets the door pause time when opened by a Push & Go command, before closing automatically.

Night PAUSE TIME

Sets the door pause time when opened by a command in NIGHT mode, before closing automatically.

NIGHT SENSOR DELAY

When NIGHT mode is set, the internal detector remains active for the amount of time set in this parameter, to allow it to be opened only once. The internal detector is disabled immediately after opening and in any case upon expiry of the set delay.

■ PROGRAMMING MOTOR BLOCK KIT FUNCTION

Specifies the operating mode in which the lock is activated. **LOCK DELAY**

Specifies the opening delay time of the door to allow the lock to be released.

RELEASE TYPE

Specifies when power is disconnected from the lock after it has been mechanically released:

Opening = during the opening phase

Closed = when the door is closed again

■ PROGRAMMING INSTALLATION	
ARM ITPE	CONFIG. DEFAULT
START SETUP	resets the factory defaults after confirmation.
Carries out a Setup cycle after confirmation.	BOARD'S DISPLAY
PUSH AND GO	Not active.
Sets the function that commands the automatic opening of the	IN I RUSION
Disabled = Push & Go not enabled	manually
Enabled = Push & Go enabled	KPEVO KEY
Fast food = Push & Go enabled in "FAST FOOD" mode (manual	You can choose between:
opening, motorized closing)	Block = the user must enter the user password in order to
PARTIAL STOP SEC.	access the menus that he is authorised to use.
Specifies the detection area of the safety in opening:	nassword in order to access the menus that he is authorised to
stroke	USE.
Enabled= obstacle detection NOT active in proximity to the	CONSECUTIVE OBST.
opening stop	Specifies the maximum number of consecutive obstacle
	detections in the same direction of movement, before stopping in
Specifies the opening delay between the doors of 2 leaf models.	an error condition.
Specifies the function that pushes the door with a greater force in	TEST ERROR
the final section of the closure. It is useful to activate this function	Specifies the eect that the TEST will have when it
if there is high friction or if the seals are particularly rigid.	detects a safety device fault:
Because activating the SCP function also reduces the	Disabled = the door will remain stationary in an error condition Enabled = the door will continue to operate at minimum speed
final section of closing. DO NOT activate the SCP	Linabled - the door will continue to operate at minimum speed
function in "low energy" mode.	■ ERRORS
REVERSE STROKE	In this menu, the display indicates any current errors that there
Sets the function that makes the door carry out a short reverse	may be in real time.
stroke before opening to make it easier to the release the lock.	WARNINGS In this many, the display indicates any current elects that there
2 EAST REG. Registration of BUS 2easy devices	may be in real time
INOUT STATE	
The display indicates the status (on / off) of inputs I1-I8 and	The AutoEntryControl has two counters:
outputs O1-O2 in real-time.	- total, non-resettable
DOOR STATUS	- partial, resettable
OTHER BOARD DATA	automation
The display indicates useful diagnostics information in real-time.	and reset the partial counter.
	It is also possible to set a deadline for scheduled maintenance
	according to:
FUNCTION	- date (optional)
Sets the operating mode. MASTER/SLAVE NR	- number of cycles (from 1000 to 1000000) Alert 60 will be displayed as soon as one of the two settings (date
Sets the network ID of the unit.	or number of cycles) is reached.
INTERCOM REG.	Logging in with the user password only allows data
Registers the units of the network (to be performed only on the	U to be viewed.
AUTO with ID1).	
Shows the ID of the units registered (on the master)	

■ DATE/TIME

This menu allows you to set or modify the date, time.



To keep the settings even if there is no mains power, which is necessary for the TIMER to work correctly, a battery must be installed on the Logic board.

■ TIMER

This menu includes all the parameters for conguring the TIMER function.

When the TIMER is enabled, the operating mode of the door during the programmed time bands is set automatically. A maximum of 6 daily time bands can be dened, and an operating mode, selected from those available, assigned to each one. Each time band has a start time and an end time. The time bands must not overlap.



When the TIMER is enabled, the T icon appears on the home screen.

To manually change the operating mode set by the TIMER, it rst has to be disabled.

In order for the TIMER to work correctly, a battery must be installed on the Logic board.

In order to quickly program groups of days of the week with the same time bands, it is possible to simultaneously select all the days of the week (MON - SUN) and all weekdays (MON - FRI). Once the time bands that have been dened here have been confirmed using the APPLY option, they will overwrite any time bands that have already been programmed for individual days. If it is necessary to program specic days or periods (e.g. recurring holidays), you may use the JOLLY function. A maximum of 6 JOLLY time bands can be specied and an operating mode, selected from those available, assigned to each one. Each time band has a start time and an end time. The time bands must not overlap.

The JOLLY time bands are then assigned to a maximum of 6 INTERVALS. An interval can be a single day or a series of days.



If a single day is defined, the start and end date of the interval must be the same. The interval must refer to <u>same calendar year</u> (example: for the period from 12/25 to 01/06, 2 intervals must be created, from 12/25 to 12/23 and from 01/01 to 01/06).

PASSWORD

This menu allows passwords to be set or modified.

To access the FUNCTIONS menu you are prompted to enter a 4digit password.

The AutoEntryControl has two passwords available, with different access rights (See Table B below)

TABLE B. Access p	permissions and	passwords
	TECHNICIAN PSW	USER PSW
LANGUAGE	~	~
PROGRAMMING	¥	Θ
ERRORS	~	~
WARNINGS	~	×
CYCLES COUNT	~	✓(*)
DATE/TIME	¥	¥
TIMER	~	×
PASSWORD	¥	✓ (*)
INFO	~	~
* with restrictions		

(i)

The user is only allowed to modify the user password.

2. DIAGNOSTICS

2.1 LEDS CHECK

I/O BOARD LEDS

Each input on the I/O board, has a LED that indicates the physical state of the contact:

TABLE C. I/O board LEDs

LED	0	•
DL 1	accessories power on	accessories power off
DL 2 - DL9	open contact	closed contact

LOGIC BOARD LEDS

_....

There are 4 LEDs on the Logic board:

TABLE D. Logic board LEDS					
LED	0	•	*		*
DL 1 green	no USB	USB connect- ed		e.	ş
DL 2 red	normal con- dition	error	S e t u p quested	re-	Setup in pro- gress
DL 3 blue	no power or board failure	/	normal dition	con-	/
DL 4 yellow	board pa- rameters the same as trim- mer and DIP switch values	board pa- rameters different to trimmer and DIP switch values	Button pressed		/
0	off				
•	on				
*	flashing				
✤ fast flashing					

2.2 INPUTS AND OUTPUTS STATUS CHECK

The status of each input and output can be checked via the AUTO-PROG.

Go to menu 2.5.9. The display indicates the status of the logic as shown in Figure 7. Example:

IN1 = input active

IN1 = input not active



2.3 AUTOMATION STATUS CHECK

The current status of the door automation system can be checked via the AUTO-PROG.

Go to menu 2.5.10. The display shows information regarding the status of the door automation as shown below in Table E.

ABLE E. Door Status
CLOSED
OPENING
OPEN
PAUSE
NIGHT PAUSE
CLOSING
EMERGENCY ACTIVATE
MANUAL
NIGHT
STOP
SECURITIES TEST
ERROR
SETUP in progress

2.4 WARNINGS

Warnings provide information regarding the status or current phase of the door operator and alerts that may prevent it from operating. It is possible to check any current warnings via the AUTO-PROG.

Go to menu 4 to view the list of current alerts.

If there is at least one alert, a bell icon appears on the upper left corner of the home screen.

TABLE F. Warnings

41	Date and time missing - Reset date/time via theAUTO-PROG (battery req'd)
42	Clock battery discharged or missing
44	Emergency active (including command memory)
45	Timer active
46	Timer function in progress
<mark>4</mark> 8	Night mode operation
49	Manual mode operation
50	Partial mode operation
51	Obstacle detected during closure
52	Obstacle detected during opening
53	Number of maintenance cycles on E ² prom corrupted - Carry out a Reset. - If the alarm persists, replace the Logic board
58	Searching for strike on closing
60	Maintenance requested
61	AUTO-PROG fault - Check that the correct device is connected and check the connections. - If the alarm persists, update the firmware - If the alarm persists, replace the Logic board
63	Intrusion in progress
65	Set-up in progress
68	 TEST alarm (only if the "test error" parameter is enabled) Check the operation of the connected devices If the alarm persists, replace the device If the alarm persists, replace the Logic board In this condition, the door moves at a slower speed.
69	Door opened by a semi-automatic command
ור	Slave Intercom mode
75	Intercom alarm - Check the connections - Check the ID - If the alarm persists, replace the Logic board
13	Slave Error / Alarm
14	Interlock alarm - Check the connections - Check the ID - If the alarm persists, replace the Logic board
80	Non-standard programming

2.5 ERRORS

Errors are malfunctions that prevent the automation system from working. They are indicated by a steady red LED on the Logic board.

After every 5 minutes in which a fault condition persists and for a maximum of 20 consecutive times, the AutoEntryControl will perform a Reset to attempt to restore normal operation so as not to require any action if the condition that caused the error was temporary. If the fault persists, remove the cause in order to restore normal operation.

The type of error can be identified via the AUTO-PROG. The error code appears on the home page. Go to menu 5; the display provides information regarding the current error.

When an error occurs:

1. Check all the electrical connections

2. Carry out a reset.

3. If the problem persists, carry out the operations described in the Table G below, one at a time, until the problem is resolved.

G. ERRORS	
	Action required
Board failure	- Replace the Logic board
Eprom failure	- Replace the Logic board
Motor driver failure	- Replace the Logic board - Replace the motor
Accessories power supply fault	 Check that the accessories power supply is not short circuited Check that maximum load of the accessories has not been exceeded Replace the Logic board Replace the I/O board
Microcontroller error	- Reload/update the Logic board firmware - Replace the Logic board
Motor failure	- Replace the motor - Replace the Logic board
Board voltage anomaly	- Replace the Logic board - Replace the I/O board
Closing safety TEST failed	 Check the connections of the safety device Check that the safety device is working Replace the Logic board
Opening safety TEST failed	 Check the connections of the safety device Check that the safety device is working Replace the Logic board
Setup inhibited	 Make sure that Night or Manual mode has not been set. Make sure that an Emergency command has not been activated
Encoder fault	- Replace the Logic board
Firmware not compatible	- Update with the correct firmware
High mechanical friction	 Make sure that the leaf has been mounted correctly and that it moves smoothly, remove any friction Replace the Logic board Replace the gearmotor
Programming data corrupted	 Reprogram the board or upload the program files that were saved to the USB storage device. Replace the Logic board
	G. ERRORS Board failure Eprom failure Motor driver failure Accessories power supply fault Microcontroller error Motor failure Board voltage anomaly Closing safety TEST failed Opening safety TEST failed Setup inhibited Encoder fault Firmware not compatible High mechanical friction Programming data corrupted

24	Consecutive obstacles in closing	 Remove the obstacle in closing. Make sure that the leaf has been mounted correctly and that it moves smoothly, remove any friction
26	Lock failure	 Check the wiring of the lock Check that the maximum load of the lock has not been exceeded Replace the lock Replace the Logic board
21	Motor rotation fault	- Check the polarity of the motor cable
31	Consecutive obstacles in opening	 Remove the obstacle in opening Make sure that the leaf has been mounted correctly and that it moves smoothly, remove any friction
39	Setup data missing or corrupted	- Perform Setup - Replace the Logic board

OTHER BOARD DATA

Go to menu 2.5.11 of the AUTO-PROG. The display provides information on the following parameters:

- V MAIN : input voltage to the Logic board (Volts)
- V ACC : output voltage for accessories (Volts)
- POS : position of the rotating shaft (degrees)
- I MOT : current drawn by motor (Amperes)

2.7 FIRMWARE VERSIONS

Go to menu 9 of the AUTO-PROG to view the firmware versions of the bootloader, the Logic board and the AUTO-PROG.

2.8 LOG DATA

The AutoEntryControl records the last 512 system events. A battery must be installed on the Logic board in order to save the list of events in memory even if the system is switched off.

3. NETWORKING MULTIPLE OPERATORS

DESCRIPTION

The AutoEntryControl is capable of communicating with other AutoEntryControl units via a serial data network connection.

This enables the following modes of operation to be used (AUTO-PROG menu 2.6.1):

- INTERMODE: a master door from which to set the operating mode for all the other doors that are connected to the network.

- INTERLOCK: two single doors, where the opening of one is subject to the closing of the other and vice versa.

- 2 LEAVES: access consisting of a pair of doors.

- 2 LEAVES + INTERLOCK: two interlocked

accesses, each consisting of a pair of doors.



Every network connected AutoEntryControl should be programmed for the same network mode.

CONNECTION

The units in the network are connected via 3 daisy-chained connected wires between the grey J8 connectors of the I/O boards (Figure 8).

The sequence in which the units are wired is unimportant, but it is essential that a DAISY-CHAIN connection is used.

The 2 DIP switches on the I/O board must be set as follows:

- On the first and last units of the cascade connection: both ON.
- On intermediate units (if any): both OFF.

A unique ID (AUTO-PROG menu 2.6.2) must be assigned to each AutoEntryControl in the network as indicated below. Do not assign the same ID to more than one unit in the network.

REGISTRATION

After having wired up and assigned an address to each unit, registration (AUTO-PROG menu 2.6.3), must only be carried out on the AutoEntryControl that has been assigned ID1.



3.1 INTERMODE

Figure 9 shows the ID to assign to the AutoEntryControl units in the network.

The system consists of a Master unit and a maximum of 14 Slave units. The AutoEntryControl Master unit is the only one on which the operating mode should be set, which is then also applied immediately to all the Slave units.



With INTERMODE, it is not possible to change the operating mode of an individual unit.

The Master unit must be assigned ID1 and the Slave units with ID from 2 to 14.

3.2 INTERLOCK

Figure 10 shows the ID to assign to the AutoEntryControl units in the network.

Either of the two units can be designated as the Master and the other as the Slave. In INTERLOCK mode, one door can open only if the other is closed. The available variations are shown below.

If the PARTIAL mode is associated with INTERLOCK, only the Master leaf opens.



Connect the devices and carry out the programming and Setup of the individual AutoEntryControl units before configuring the INTERLOCK using AUTO-PROG.

Select H

on the Master unit to activate the CK.



INTERLOCK WITH NO MEMORY

With 4 sensors: the second opening is not automatic. In order to open the door, the internal/external sensor must be triggered when the other door is closed. If the sensor is activated while the door is not yet closed, it has no effect.



INTERLOCK WITH MEMORY

With 2 sensors or buttons: the second opening is automatic.



3.3 PAIR OF DOORS

Figure 11 shows the ID to assign to the AutoEntryControl units in the network.

If the two doors overlap, the one that opens first is designated as the Master. If there is no overlap, either of the two units can be designated as the Master and the other as the Slave.

The movement of the 2 leaves is synchronized.



The internal / external door sensors and safety devices must be connected to their own unit; all other devices are connected only to the Master. Connect the devices and carry out the programming and Setup of the individual AutoEntryControl units before activating the 2 LEAF function.

Only use the Master AutoEntryControl to change the operating mode.

The leaf opening / closing delay can be set in menu 2.5.6 of the AUTO-PROG.



3.4 INTERLOCKED PAIRS OF DOORS

Figure 12 shows the ID to assign to the AutoEntryControl units in the network.

This configuration integrates the 2 LEAVES function (on two pairs of doors) with the interlock function. Refer to the operating modes described above.



4. OPERATOR MAINTENANCE



Always shut off the power supply before performing any maintenance operations. If the disconnect switch is not in view, apply a warning sign stating "WARNING - Maintenance in Progress". Restore the power supply only after finishing any maintenance work and restoring the area to normal.



Maintenance must be performed by a qualified installer or maintenance technician. Follow all safety recommendations and

instructions given in this manual.

Mark off the work site and prohibit access/transit. Do not leave the work site unattended.

The work area must be kept tidy and cleared after maintenance has been completed.

Before starting work, wait for any hot components to cool down.

Do not make any modifications to the original components.

SDC shall bear no liability for damage or injury due to components that have been modified or otherwise tampered with.

The warranty shall be forfeited in the event of tampering with components. Only use SDC supplied spare parts.

4.1 INSERTING / REPLACING THE BATTERY



CARRY OUT THE FOLLOWING OPERATIONS WITH THE ELECTRICITY SUPPLY DISCONNECTED

1. Remove the cover.

2. Install or replace the CR1216 battery on the Logic board, as shown in Figure 13 .

3. Reinstall the cover.



4.2 REPLACING THE FUSE



CARRY OUT THE FOLLOWING OPERATIONS WITH THE ELECTRICITY SUPPLY DISCONNECTED

There is a power supply protection fuse on the I/O board. To replace it:

1. Contact the factory to obtain a replacement fuse or use a suitable replacement (Littelfuse P/N 02183.15HXP or similar).

2. Remove the cover

3. See Figure 14 below to locate fuse F2. Carefully replace the fuse.

4. Reinstall the cover.



5.3 ROUTINE MAINTENANCE

Table H lists the suggested operations which must be performed on a regular basis in order to keep the automation working reliably and safely; these are given purely as a guideline and should not be considered exhaustive. The installer/maintenance technician is ultimately responsible for drawing up the maintenance plan for the automation, supplementing this list or modifying the maintenance plan on the basis of the operational characteristics.

TABLE H. Scheduled Maintenance

Operations Frequency/month	ıs
Structures	
Check the structures and the parts of the building to which the door and the automation is fixed: make sure there is no dam cracking, breaks or subsidence.	^{1age,} 12
Frame	
Check the frame: make sure that it is fixed correctly, that it is integral and that there is no deformation or damage. Tighten sc and bolts where necessary.	rews 12
Check the leaf: that it is integral and that there is no deformation or damage.	12
Check the hinges: make sure that they are fixed correctly, that they are integral, correctly positioned in their seats and that the no deformation or damage.	ere is 12
Lubricate hinges or locks, if necessary.	12
Generally clean of the area of movement of the door.	12
Check the presence and condition of pictograms that highlight the glass part of the door. If they are missing or damaged, represented them.	place 12
Operator	
Check that the cover/casing and all the movable guards are integral and that they are fastened correctly. Tighten screws bolts where necessary.	and 12
Check the condition of the power cables, the sensor and accessory connection cables and the relative cable glands.	12
General cleaning.	12
Function set-up selector and keyboard	
Check that they are intact and operating correctly.	12
Sensors, protective devices and control devices	
Check that they are intact and operating correctly.	12
If applicable, check that the pictograms that identify the control devices for disabled persons are present and intact.	12
The door	
Check that the door operates properly in both directions with all the devices installed.	12
Check that the door moves smoothly and uniformly without making any unusual noises.	12
Check that the opening and closing speed is correct. For doors in "low energy" mode, make sure that the opening and clo times are within the limits permitted by the regulations.	osing 6
For doors in "low energy", mode, make sure that it is possible to stop the movement of the door without excessive force (Max. at any point along its travel.	67N) 6
Check that the door operates correctly in every operating mode.	12
Check that the lock is working properly, if present.	6
Check that the safety system is working correctly (door reverses or stops when an obstacle is detected, that the door stops in open position when there is an obstacle in the area of movement etc.)	n the 6
Check the presence, integrity and legibility of the AUTOMATIC DOOR warning sign(s).	12