t34	0000	0001		0000	count showing during action 2 (it is important if t24 ≠ 00:00; 0001 = YES)
t35	0000	0006	_	0002	labels the instrument has to show during the procedure indicated at chapter 3
					0000 = no labels, 0001 = tOn1, 0002 = tOn1 and tOn2, 0003 = tOn1, PAUS and tOn2,
					0004 = tOn1 and tPrE, 0005 = tOn1, tOn2 and tPrE, 0006 = tOn1, PAUS, tOn2 and tPrE) (15)
t36	0000	0003	_	0000	operation after a lack of power supply during the count (0000 = the instrument will interrupt
					the count, 0001 = the instrument will interrupt the count, the indication will flash and the
					buzzer will utters the sound you have set with the parameter t3, 0002 = the instrument will
					resume the count since the beginning of the phase during which the lack of power supply
					has taken place, the indication will flash and the buzzer will utters the sound you have set
					with the parameter t3, 0003 = it is important if t0, t10 and/or t23 \neq 0000, the instrument will
					resume the count since the lack of power supply has taken place with a maximum error of
					60 s, the indication will flash and the buzzer will utters the sound you have set with the
					parameter t3)

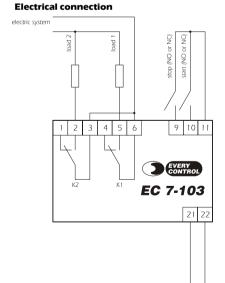
LABEL	MIN.	MAX.	U.M.	DEF.	SERIAL NETWORK (EVCOBUS)
L1	1	15		1	instrument address
L2	0	7		0	instrument group
L4	0	3		1	baud rate (0 = 1,200 baud, 1 = 2,400 baud, 2 = 4,800 baud, 3 = 9,600 baud)

LABEL	MIN.	MAX.	U.M.	DEF.	ACTION 1 LENGTH
tOn1	00:00	(16)	(16)	00:00	action 1 length

- (12) the unit of measure depends on the parameter t0: if the parameter t0 has value 0000, the maximum value of the parameter will be 99 s and 90 ds; if the parameter t0 has value 0001, the maximum value of the parameter will be 99 min and 59 s; if the parameter t0 has value 0002, the maximum value of the parameter will be 99 h and 59 min
- [13] the unit of measure depends on the parameter t23: if the parameter t23 has value 0000, the maximum value of the parameter will be 99 s and 90 ds; if the parameter t23 has value 0001, the maximum value of the parameter will be 99 min and 59 s; if the parameter t23 has value 0002, the maximum value of the parameter will be 99 h and 59 min
- (14) except what you have set with the parameters t12 and t21
- (15) if the parameter has value 0000, the value you can set by using the procedure indicated at chapter 3 is action 1 length
- [16] the unit of measure depends on the parameter t10: if the parameter t10 has value 0000, the maximum value of the parameter will be 99 s and 90 ds; if the parameter t10 has value 0001, the maximum value of the parameter will be 99 min and 59 s; if the parameter t10 has value 0002, the maximum value of the parameter will be 99 h and 59 min.



PREPARATIONS



OPERATION

2.1 Preliminary information

A full count consists of four phases:

- delay action 1
- action 1 (the load 1 will be ON)
- delay action 2
- action 2 (the load 2 will be ON and the buzzer will utter the sound you have set with the parameter t3).

As soon as one phase will end, the instrument will automatically move to the following one.

2.2 How to start the count

If you have to start the count:

start press

(3) if the parameter t4 has value 0000, you could activate the input for remote start as well; if the parameter t4 has value 0002, you will have to activate this input.

(3)

2.3 How to suspend/resume the count

If you have to suspend/resume the count:

press start

(4) if the parameter t8 has value 0000, the function will not be available; if the parameter t8 has value 0002, you will have to deactivate the input for remote

2.4 How to stop the count

If you have to stop the count

press

stop

(5) if the parameter t5 has value 0000, you could activate the input for remote stop as well; if the parameter t5 has value 0002, you will have to activate this input.

COUNT PHASES

3.1 How to set the count phases length

Every phase is associated with a label:

label E [] n 1 (6) action 1

delay action 2

label **P R ! ! 5** (7)

action 2

power supply

label + [] n 7 (8)

delay action 1

label F P r F (9)

If you have to modify the length of one of the phases:

press and release set



for selecting the label: the most significant part of

the display will flash (10)

To modify the value of the most significant part of the display:



within 2 s

To modify the value of the least significant part of the display:

press

during the modification of the most significant part,

then ...



within 2 s

If you have to quit the procedure:

press set

- (6) you can set the length of action 1 with the parameter tOn1 as well; the times base depends on the parameter t10
- (7) you can set the length of delay action 2 with the parameter t20 as well; the times base depends on the parameter t0
- you can set the length of action 2 with the parameter t24 as well; the times base depends on the parameter t23
- (9) you can set the length of delay action 1 with the parameter t11 as well; the times base depends on the parameter t0
- (10) the labels the instrument has to show depend on the parameter t35.

CONFIGURATION PARAMETERS

How to set the configuration parameters

If you have to gain access the procedure:

(start) and (stop)

for 4 s : the instrument will show 📙 🛭

If you have to select a parameter:

start Or stop

If you have to modify the value of the parameter (11):

press

press

press

set

start Or stop

within 2 s

If you have to quit the procedure:

(start)and(stop) press

for 4 s or do not operate for about 60 s.

(11) if you have to modify the value of the parameters t11, t20, t24 and tOn1 use the procedure indicated at chapter 3

SIGNALS

Signals

LED	MEANING				
out 1	Load 1 LED				
	if it is lighted, action 1 will be running				

out 2 Load 2 LED

if it is lighted, action 2 will be running

ALARMS

Alarms

V. I Alamis								
CODE	reasons	REMEDIES	EFFECTS					
EΡ	there is the corruption	switch off the power	• you can not gain ac-					
corrupted	of the configuration	supply of the instru-	cess the setting pro-					
memory	data of the memory of	ment: unless the alarm	cedures					
data	the instrument	disappears, you will	• all outputs will be					
		have to change the	forced OFF					
		instrument						
indica-	there has been a lack	• test the instrument-	the instrument will in-					
tion	of power supply dur-	power supply con-	terrupt the count					
count	ing the count	nection (look at the						
inter-		parameter t36)						
rupted		• interrupt the count						
indica-	there has been a lack	• test the instrument-	the instrument will					
tion	of power supply dur-	power supply con-	resume the count					
count	ing the count	nection (look at the	since the beginning of					
inter-		parameter t36)	the phase during					
rupted		• interrupt the count	which the lack of					
			power supply has					
			taken place or since					
			the lack of power sup-					
			ply has taken place					
			with a maximum er-					
			ror of 60 s					

The instrument shows the indications above flashing and the buzzer utters the sound you have set with the parameter t3.

TECHNICAL DATA

7.1 Technical data

Box: self-extinguishing grey.

Size: 72 x 72 (2.83 x 2.83 in, frontal).

Ambient: from 0 to 55 °C (32 to 131 °F, 10 ... 90% r.H. without condensate).

Power supply: 230 Vac, 50/60 Hz, 1.5 VA.

Alarm buzzer: included.

Digital inputs: 2, start and stop (NO or NC contact), free of voltage.

Working range: from 1 ds to 99 h and 59 min.

Outputs: two 5 A @ 250 Vac relay for load 1 and load 2 control (change-over contact).

CONFIGURATION PARAMETERS

8.1 Configuration parameters

LABEL	MIN.	MAX.	U.M.	DEF.	TIMER	
tO	0000	0002	_	0000	times base for delay action 1 and delay action 2 (it is important if t11 and/or t20 \neq 00:00;	
					0000 = seconds and tenths of second, 0001 = minutes and seconds, 0002 = hours and	
					minutes)	
t1	0000	0001		0000	kind of contact of the remote start input (it is important if $t4 \neq 0001$; $0000 = NO$, $0001 = NO$	
t2	0000	0001		0000	kind of contact of the remote stop input (it is important if $t5 \neq 0001$; $0000 = NO$, $0001 = NC$)	
t3	0000	0002		0000	sound of the buzzer during action 2 (it set the sound of the buzzer during the alarm count	
					interrupted as well, it is important if t24 \neq 00:00 and/or t36 \neq 0000;	
					0000 = it will never be activated, 0001 = continuous sound, 0002 = intermittent beep)	
t4	0000	0002		0000	event giving the count start (0000 = by pressing the start key or activating the remote start	
					input, 0001 = by pressing the start key, 0002 = by activating the remote start input)	
t5	0000	0002		0000	event giving the count stop (0000 = by pressing the stop key or activating the remote stop	
					input, 0001 = by pressing the stop key, 0002 = by activating the remote stop input)	
t6	0000	0001		0000	kind of count the instrument has to show (it is important if t31, t32, t33 and/or t34 \neq 0000;	
					0000 = count down, 0001 = count up)	
t7	0000	0001		0000	authorization to operate cyclically (it is important if t22 = 0002; 0001 = YES, as soon as one	
					count will end, the instrument will automatically start another one)	
t8	0000	0002		0000	event giving the suspension/resumption of the count (0000 = no events, 0001 = in accord-	
					ance with t4, 0002 = by deactivating the remote start input)	
t10	0000	0002	_	0000	times base for action 1 (it is important if $tOn1 \neq 00:00$; $0000 = seconds$ and $tenths$ of $second$,	
					0001 = minutes and seconds, 0002 = hours and minutes)	
t11	00:00	(12)	(12)	00:00	delay action 1 length	
t12	0000	0001	_	0000	load 1 operation (0000 = it will be ON during action 1 and OFF otherwise, 0001 = it will be	
					OFF during action 1 and ON otherwise)	
t20	00:00	(12)	(12)	00:00	delay action 2 length	
t21	0000	0001	_	0000	load 2 operation (0000 = it will be ON during action 2 and OFF otherwise, 0001 = it will be	
					OFF during action 2 and ON otherwise)	
t22	0000	0002	_	0000	event ending action 2 (0000 = in accordance with t5, 0001 = in accordance with t4 or t5,	
					0002 = in accordance with t5 or as soon as action 2 length will be passed)	
t23	0000	0002		0000	times base for action 2 (it is important if $t24 \neq 00:00$; $0000 =$ seconds and tenths of second,	
					0001 = minutes and seconds, 0002 = hours and minutes)	
t24	00:00	(13)	(13)	00:00	action 2 length	
t25	0000	0002		0000	connection between loads (0000 = no connections, 0001 = the load 2 will work in accord-	
					ance with load 1, 0002 = the load 1 will work in accordance with load 2) [14]	
t31	0000	0001	_	0000	count showing during delay action 1 (it is important if t11 \neq 00:00; 0001 = YES)	
t32	0000	0001	_	0001	count showing during action 1 (it is important if tOn1 \neq 00:00; 0001 = YES)	
t33	0000	0001	_	0000	count showing during delay action 2 (it is important if t20 \neq 00:00; 0001 = YES)	