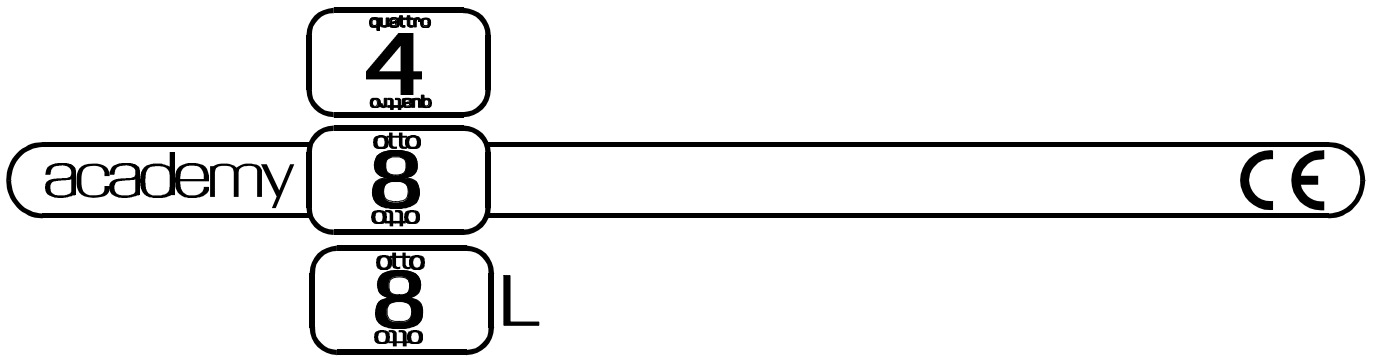


DIGITAL COMMUNICATOR CONTROL PANEL



○ PROGRAMMING FROM KEYPAD



BS EN ISO 9001





Digital Communicator Control Panel

academy  - academy  - academy  L

complies to:

Emission: EN 50081-1/1992

Immunity: EN 50130-4/1995+A1/1999

Low voltage: EN 60950/1996 + A4/1997

Burglar alarm systems: CEI 79/2 2^a Ed. 1993

Terminal Equipment (TE): TBR21-1/1993

BENTEL SECURITY declines all responsibility in the event of unauthorized intervention on the control panel.

The control panel has been developed and made according to the highest standards of quality, reliability and performance adopted by BENTEL SECURITY srl.

To make sure your system continues to work as intended, you must test your system every month. Consult the installer for testing and maintenance instructions. If your system does not work correctly, call your installer for service.

Installation of the control panel must be carried out strictly according to the instructions, and in compliance with the safety laws in force.

BENTEL SECURITY srl reserves the right to modify the technical specifications of this product without prior notice.



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via Florida - Z.I. Valtresino - 63013 GROTTAMMARE (AP) - ITALY
INSTALLATION MANUAL: Digital communicator control panel
ISTRUZIONI PR.TAST.UK BENT.ACADEMY4/8/8L ISTPTBLEACADEMY8

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PROGRAMMING FROM KEYPAD

For in-detail information on the following parameters and options refer to the "PROGRAMMING" chapter.

All the control panel parameters can be programmed from the keypad. Only the **INSTALLER PIN** and **MAIN USER PINs** can access the programming phase.

- + The control panel will be **out of service** (alarm outputs disabled) during the programming phase.

Restrictions

The Installer can program all the control panel parameters, with the exception of Code PINs 1 through 23.

A **Main User Code PIN** can change all **User, Duress and Patrol Code PINs** enabled on the group of partitions it controls (see below).

CODE No.	TYPE	ASSIGNED PARTITIONS
Code1	MAIN USER	1 - 3 - 4
Code2	MAIN USER	2 - 3
Code3	USER	1 - 3
Code4	USER	4
Code5	USER	3 - 4
Code6	PATROL	2
Code7	DURESS	3
Code8	USER	2 - 3

In the example above **MAIN USER Code 1** can change its own PIN and the PINs of: Code 3, Code 4, Code 5 and Code 7.

MAIN USER Code 2 can change its own PIN and the PINs of: Code 6, Code 7 and Code 8.

NC2TAST or **ICON/KP** keypads can be connected to the Panel. The key functions on the **NC2TAST** and **ICON/KP** keypads are identical, however, the key icons differ. The following description refers to the **NC2TAST** keypad.

Access to programming

The control panel must be disarmed.

INSTALLER

Enter the INSTALLER PIN then press .



MAIN USER

Enter a MAIN USER PIN, press **ENTER** then press **ON**.

- + Access to programming will be signalled by slow flashing on LED 7 and a long high-tone beep.

■ Programming structure and modes

Structure Programming comprises two distinct phases—shown by the ON /OFF status of LED L6.

PHASE 1—ENTER PARAMETER ADDRESS—LED L6 OFF

- Phase 1—enter the Address of the parameter to be programmed (maximum 3 digits) then press **ENTER**.

Access to **PHASE 2** will be signalled by a long high-tone beep.

Access Denied will be signalled by a long low-tone beep. Retry after error beep.

- + Press **ESC** to exit the programming phase.

PHASE 2—ENTER PARAMETER VALUE—LED L6 ON

- Phase 2—enter the parameter value then press **ENTER**.

The Panel status: partitions, options, attributes, etc., can be viewed by means of the LEDs under the number keys. An audible acceptance or error signal will be emitted when the keys are pressed.

Telephone numbers, PINs and times cannot be viewed on the keypad, and the LEDs under the number keys will be **OFF**.

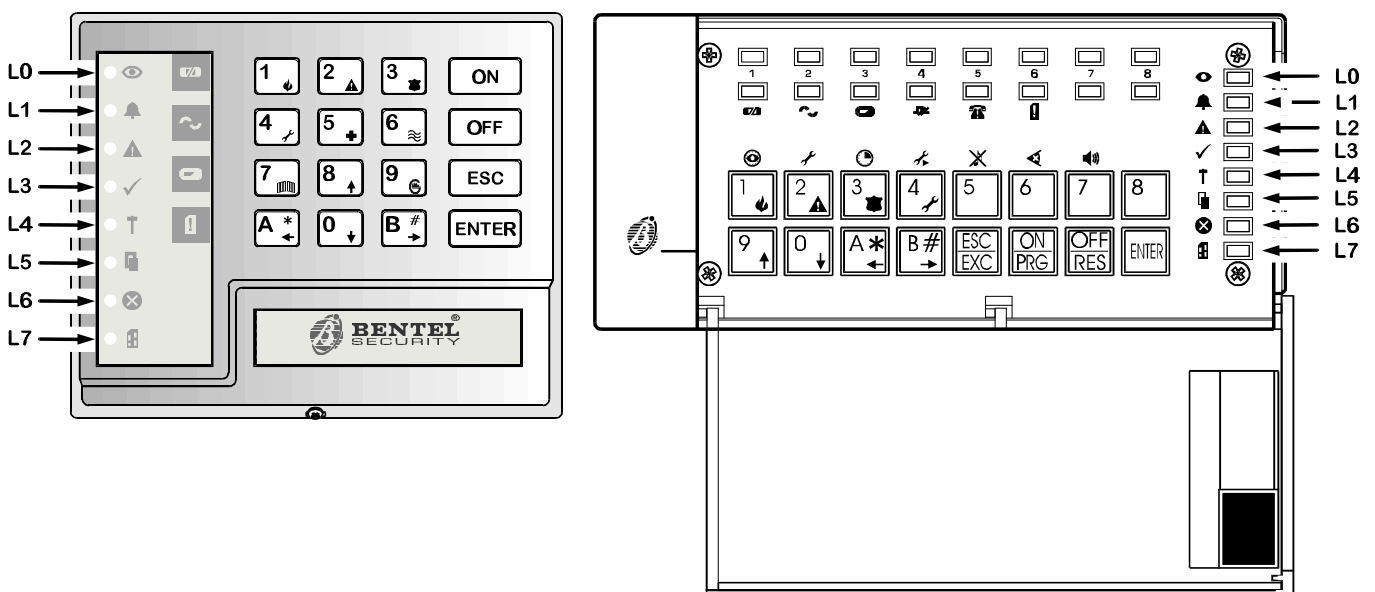


Figure 1 LEDs and keys



Press to step back to **PHASE 1**.

+ Press to save the parameter values.

■ Programming Modes

There are three parameter programming modes: **Single mode**, **Consecutive mode**, **Multi-section mode**. *Refer to examples 1, 2 and 3.*

Refer to the parameter Address tables for: a brief description; the accepted keys and / or values of each parameter and the programming mode (see example 4).

Single mode The **◆** symbol means the parameter can be programmed in **Single mode** only.

Step 1 Enter the parameter Address then press .

Step 2 Enter the parameter value then press .
(See example 4)

Consecutive Mode The **↘** symbol means the parameter can be programmed in **Single mode** and **Consecutive mode**.

Consecutive mode (for zones, outputs and telephone numbers) requires the Address of the first parameter **only**, as follows.

Step 1 Enter the Address then press .

Step 2 Enter the parameter value then press .

Step 3 Enter the value of the next parameter then press , and so forth.
(See example 2)

Multi-section Mode The **∨** symbol means the parameter must be programmed in **Multi-section mode**.

Multi-section mode parameters have more than one section (e.g. Clock parameter). Therefore, it will be necessary to press after completing each section.

Step 1 Enter the Address then press .

Step 2 Enter the value of the first section then press .

Step 3 Enter the value of the second section then press .

(See example 3)



Example 1

Step 1 Enter the Installer PIN

Step 2 Press .

PHASE 1 active---LED L7 will **flash** slowly.

Step 3 Enter a valid Address (e.g. Address 1 for Keypads in configuration---accepted keys through) then press .

PHASE 2 active---LED L6 **ON**.

Step 4 Setup the keypads in configuration---accepted keys through .

Step 5 Press to save and step back to **PHASE 1**.

Step 6 Repeat the procedure from Step 3 for the other parameters.

If is pressed when **PHASE 1** is active the programming session will close.

If is pressed when **PHASE 2** is active the current parameter will not be saved and the control panel will step back to **PHASE 1** Step 3.

+ Press to save the parameter value.

Example 2

Step 1 Enter the Installer PIN.

Step 2 Press .

PHASE 1 active---LED L7 will **flash** slowly.

Step 3 Enter a valid Address (e.g. Address 60 for **Partition assignment** Zone---accepted keys through) then press .

PHASE 2 active---LED L6 **ON**.

Step 4 Assign the partitions for zone 1---accepted keys through .

Step 5 Press to save parameter 60 and step to parameter 61 (**Type** Zone 1).

PHASE 2 active---LED L5 **ON**.

Step 6 Program the **Type** for zone 1---accepted keys through .



- Step 7** Press **ENTER** to save parameter 61 and step to parameter 62 for **Balance** type Zone 1.
PHASE 2 active---LED L4 **ON**.
- Step 8** Program the **Balance** Type for zone 1---accepted keys **1** through **4**.
- Step 9** Press **ENTER** to save parameter 62 and go to parameter 63 for **Attributes** Zone 1.
PHASE 2 active---LED L3 **ON**.
- Step 10** Program the Attributes for zone 1 ---accepted keys **1** through **5**.
- Step 11** Press **ENTER** to save parameter 63 and go to parameter 64 for **Alarm cycles** Zone 1.
PHASE 2 active---LED L2 **ON**.
- Step 12** Enter the number of Alarm cycles for zone 1---values **0** through **15**.
- Step 13** Press **ENTER** to save parameter 64 and step back to **PHASE 1** Step 3
LED 7 will flash---all other LEDs will be OFF.

If **ESC** is pressed when **PHASE 1** is active programming session will close.



If **ESC** is pressed when **PHASE 2** is active the current parameter will not be saved and the control panel will step back to **PHASE 1** Step 3.


+ Press **ENTER** to save the parameter value.

Example 3



- Step 1** Enter the Installer PIN.
- Step 2** Press **ENTER**.
PHASE 1 active---LED L7 will flash slowly.
- Step 3** Enter a valid Address (**e.g.** event 325 **SUPERKEY 1**---refer to "User Manual").
- Step 4** Press **ENTER**.
PHASE 2 active---LED L6 **ON**
- This is a **Multi-section** parameter with three sections:
Calls - Event Code - Voice Message. The telephone numbers (first section) will be called when the assigned event occurs.




Step 5 Enter the identifier number of the telephone number—accepted keys  through .



Step 6 Press  to save the data in the **Calls** section and step to the **Event Code** section.

PHASE 2 active—a LED will go **ON** to confirm parameter acceptance.


Step 7 Enter the 2 digit event code for the **SUPERKEY 1** event—accepted keys  through .

Step 8 Press  to save the data in the **Event Code** section and step to the **Voice Message** section.

PHASE 2 active—a LED will go **ON** to confirm parameter acceptance.


Step 9 Select the voice message for the **SUPERKEY 1** event (refer to User Manual)—accepted keys  through .

+ Press  for **no message**.

Step 10 Press  to save the data in the **Voice Message** section and go back to **PHASE 1** Step 3.



LED 7 will flash—all other LEDs will be OFF.


If  is pressed when **PHASE 1** is active the programming session will close.




If  is pressed when **PHASE 2** is active the current parameter will not be saved and the control panel will step back to **PHASE 1** Step 3.

+ Press  to save the parameter value.


Example 4

Parameter 1 (Keypads in configuration)—accepted keys  through . A brief description of the parameter can be found at the top of the **KEY-PADS** table.


The  symbol at the end of the row means the parameter can be programmed in the **Single mode** only.

Parameter 131 (Call Type for telephone number 2)—accepted keys  through  and .

A brief description can be found at the top of the **TELEPHONE** table.









The  symbol at the end of the row in the programming tables means the parameter can be programmed in both **Single mode** and **Consecutive mode**.

Parameter 290 (Clock): data entry instructions can be found at the top of the **CLOCK** table.

The  symbol between the "day - month - year" and also "hour and minutes" sections means the parameter must be programmed in **Multi-section mode**.



■ Keypads parameters (Addresses 1 through 9)

KEYS	KEYPADS IN CONFIGURATION ON=In configuration OFF=Not in configuration	PARTITION ASSIGNED TO KEYPADS
1 	Keypad 1	Partition1
2 	Keypad 2	Partition 2
3 	Keypad 3	Partition 3
4 	Keypad 4	Partition 4
5 	Keypad 5	-
6 	Keypad 6	-
7 	Keypad 7	-
8 	Keypad 8	-

Add.	Keypads parameters	Data
1	Keypads (1 through 8) in configuration u	
2	Assigns partitions for keypad 1 u	
3	Assigns partitions for keypad 2 u	
4	Assigns partitions for keypad 3 u	
5	Assigns partitions for keypad 4 u	
6	Assigns partitions for keypad 5 u	
7	Assigns partitions for keypad 6 u	
8	Assigns partitions for keypad 7 u	
9	Assigns partitions for keypad 8 u	



Key readers 1 through 8 parameters (Addresses 10 through 34)

KEYS	KEY READERS IN CONFIGURATION	ASSIGNED PARTITIONS	ARMING MODE A	ARMING MODE B
	ON=In configuration OFF=Not in configuration	ON=Assigned OFF=Not Assigned	Green LED ON=Arm OFF=Disarm	Amber LED ON=Arm OFF=Disarm
1 ↓	Key reader 1	Partition 1	Partition 1	Partition 1
2 ▲	Key reader 2	Partition 2	Partition 2	Partition 2
3 ▾	Key reader 3	Partition 3	Partition 3	Partition 3
4 ↗	Key reader 4	Partition 4	Partition 4	Partition 4
5 +	Key reader 5	-	-	-
6 ≡	Key reader 6	-	-	-
7 ▮	Key reader 7	-	-	-
8 ↑	Key reader 8	-	-	-

Add.	Key Readers 1 through 8 in configuration	Data
10	key readers (1 through 8) in configuration u	

Add.	Key Reader 1 parameters	Data
11	Assigns partitions ↘	
12	Amber LED - Arming mode A ↘	
13	Green LED - Arming mode B u	

Add.	Key Reader 2 parameters	Data
14	Assigns partitions ↘	
15	Amber LED - Arming mode A ↘	
16	Green LED - Arming mode B u	

Add.	Key Reader 3 parameters	Data
17	Assigns partitions ↘	
18	Amber LED - Arming mode A ↘	
19	Green LED - Arming mode B u	

Add.	Key Reader 4 parameters	Data
20	Assigns partitions ↘	
21	Amber LED - Arming mode A ↘	
22	Green LED - Arming mode B u	



Add.	Key Reader 5 parameters	Data
23	Assigns partitions ↘	
24	Amber LED - Arming mode A ↘	
25	Green LED - Arming mode B u	

Add.	Key Reader 6 parameters	Data
26	Assigns partitions ↘	
27	Amber LED - Arming mode A ↘	
28	Green LED - Arming mode B u	

Add.	Key Reader 7 parameters	Data
29	Assigns partitions ↘	
30	Amber LED - Arming mode A ↘	
31	Green LED - Arming mode B u	

Add.	Key Reader 8 parameters	Data
32	Assigns partitions ↘	
33	Amber LED - Arming mode A ↘	
34	Green LED - Arming mode B u	

■ **Key readers 9 through 16 parameters (Addresses 35 through 59)**

To program parameter 35 refer to the table in the previous paragraph, where keys 1 through 8 correspond to key readers 9 through 16.

Add.	Key Readers 9 through 16 in configuration	Data
35	key readers (9 through 16)in configuration u	

Add.	Key Reader 9 parameters	Data
36	Assigns partitions ↘	
37	Amber LED - Arming mode A ↘	
38	Green LED - Arming mode B u	

Add.	Key Reader 10 parameters	Data
39	Assigns partitions ↘	
40	Amber LED - Arming mode A ↘	
41	Green LED - Arming mode B u	

Add.	Key Reader 11 parameters	Data
42	Assigns partitions ↘	
43	Amber LED - Arming mode A ↘	
44	Green LED - Arming mode B u	



Add.	Key Reader 12 parameters	Data
45	Assigns partitions ↘	
46	Amber LED - Arming mode A ↘	
47	Green LED - Arming mode B u	

Add.	Key Reader 13 parameters	Data
48	Assigns partitions ↘	
49	Amber LED - Arming mode A ↘	
50	Green LED - Arming mode B u	

Add.	Key Reader 14 parameters	Data
51	Assigns partitions ↘	
52	Amber LED - Arming mode A ↘	
53	Green LED - Arming mode B u	

Add.	Key Reader 15 parameters	Data
54	Assigns partitions ↘	
55	Amber LED - Arming mode A ↘	
56	Green LED - Arming mode B u	

Add.	Key Reader 16 parameters	Data
57	Assigns partitions ↘	
58	Amber LED - Arming mode A ↘	
59	Green LED - Arming mode B u	

■ Zone programming

KEYS	PARTITIONS	TYPE	BALANCE TYPE	ATTRIBUTES
1 ↘	Partition 1	Instant	Normally closed	Double pulse
2 ▲	Partition 2	Delayed	Normally open	Unbypassable
3 ▣	Partition 3	Path	Balanced	Chime
4 ↗	Partition 4	24h	Double balanced	Silence
5 +	-	Duress	-	Test
6 ≈	-	Fire	-	Delayed on partitioning
7 📄	-	Arm Partitions	-	-
8 ↑	-	Switch status	-	-

Alarm cycles Enter the required number of cycles: 0 through 14. Enter 15 for Repetitive cycles.



Add.	Zone 1 parameters	Data
60	Assigns partitions ↘	
61	type ↘	
62	balance type ↘	
63	attributes ↘	
64	alarm cycles u	

Add.	Zone 2 parameters	Data
65	Assigns partitions ↘	
66	type ↘	
67	balance type ↘	
68	attributes ↘	
69	alarm cycles u	

Add.	Zone 3 parameters	Data
70	Assigns partitions ↘	
71	type ↘	
72	balance type ↘	
73	attributes ↘	
74	alarm cycles u	

Add.	Zone 4 parameters	Data
75	Assigns partitions ↘	
76	type ↘	
77	balance type ↘	
78	attributes ↘	
79	alarm cycles u	

Add.	Zone 5 parameters	Data
80	Assigns partitions ↘	
81	type ↘	
82	balance type ↘	
83	attributes ↘	
84	alarm cycles u	

Add.	Zone 6 parameters	Data
85	Assigns partitions ↘	
86	type ↘	
87	balance type ↘	
88	attributes ↘	
89	alarm cycles u	

Add.	Zone 7 parameters	Data
90	Assigns partitions ↘	
91	type ↘	
92	balance type ↘	
93	attributes ↘	
94	alarm cycles u	



Add.	Zone 8 parameters	Data
95	Assigns partitions ↘	
96	type ↘	
97	balance type ↘	
98	attributes ↘	
99	alarm cycles u	

+ Addresses no. 80 to 99 are not active on Academy4.

■ **Outputs parameters (Addresses 100 through 111)**

KEYS	PARTITIONS/ATTRIBUTES	SIGNALS-A-	SIGNALS-B-
1 ↓	Partition 1	Arming delay	Alarm and Tamper
2 ▲	Partition 2	Chime	Fire GND
3 ▾	Partition 3	Entry Time	Telephone line Trouble
4 ↗	Partition 4	Exit Time	Alarm and Tamper - restore on bell timeout
5 +	-	Alarm memory	Reserved
6 ≡	LED ON = Normally Open LED OFF = Normally Closed	Trouble	Reserved
7 ▮	-	Partitions Disarmed	Reserved
8 ↑	-	Partitions Armed	Reserved

Add.	Output 1 parameters	Data
100	Assigns partitions; attributes ↘	
101	signals A ↘	
102	signals B u	

Add.	Output 2 parameters	Data
103	Assigns partitions; attributes ↘	
104	signals A ↘	
105	signals B u	

Add.	Output 3 parameters	Data
106	Assigns partitions; attributes ↘	
107	signals A ↘	
108	signals B u	

Add.	Output 4 parameters	Data
109	Assigns partitions; attributes ↘	
110	signals A ↘	
111	signals B u	

Addresses no. 106 to 111 are not active on Academy4 and Academy8.



■ Times

ENTRY and **EXIT** times are in seconds (maximum 255 seconds). **Alarm delay**, **PATROL** and **ALARM** times are in minutes (maximum 99 minutes).

Add.	Partition 1 times	Data
112	Exit Time in seconds u	
113	Entry Time in seconds u	
114	Arming Delay in minutes u	

Add.	Partition 2 times	Data
115	Exit Time in seconds u	
116	Entry Time in seconds u	
117	Arming Delay in minutes u	



Add.	Partition 3 times	Data
118	Exit Time in seconds u	
119	Entry Time in seconds u	
120	Arming delay in minutes u	









Add.	Partition 4 times	Data
121	Exit Time in seconds u	
122	Entry Time in seconds u	
123	Arming Delay in minutes u	

Add.	Patrol time	Data
124	Patrol Time in minutes u	







Add.	Alarm time	Data
125	Alarm Time in minutes u	

■ Telephone Numbers (Addresses 126 through 157)

When programming a Telephone Number ---use key  to insert pauses of 2 seconds, and key  key to cancel errors.

KEYS	CALL TYPE	PROTOCOL
	Central Station	ContactID
	Voice Message	Ademco 10bps
	Teleservice	Ademco 14 bps
	Disabled	Franklin 20bps
	Listen-in (only when 1 is active)	Radionics 40bps
	Hands free (only when 5 is active)	Scantronics 10bps
	-	Customized
	-	CESA



Customer Code: 4 digit are required (5 for CESA protocol), keys  through  and superkeys  through  for hexadecimal digits A, B, C, D, E and F. For Pulse protocols the  key corresponds to .

Add.	Telephone number 1	Data
126	telephone number (16 digits max.) ↘	
127	call type ↘	
128	protocols↘	
129	customer code 4 digits (5 for CESA) u	

Add.	Telephone number 2	Data
130	telephone number (16 digits max.) ↘	
131	call type ↘	
132	protocols↘	
133	customer code 4 digits (5 for CESA) u	

Add.	Telephone number 3	Data
134	telephone number (16 digits max.) ↘	
135	call type ↘	
136	protocols↘	
137	customer code 4 digits (5 for CESA) u	

Add.	Telephone number 4	Data
138	telephone number (16 digits max.) ↘	
139	call type ↘	
140	protocols↘	
141	customer code 4 digits (5 for CESA) u	

Add.	Telephone number 5	Data
142	telephone number (16 digits max.)↘	
143	call type ↘	
144	protocols↘	
145	customer code 4 digits (5 for CESA) u	

Add.	Telephone number 6	Data
146	telephone number (16 digits max.) ↘	
147	call type ↘	
148	protocols↘	
149	customer code 4 digits (5 for CESA) u	

Add.	Telephone number 7	Data
150	telephone number (16 digits max.) ↘	
151	call type ↘	
152	protocols↘	
153	customer code 4 digits (5 for CESA) u	



Add.	Telephone number 8	Data
154	telephone number (16 digits max.) ↘	
155	call type ↘	
156	protocols ↘	
157	customer code 4 digits (5 for CESA) u	

■ Customer Telephone Options (Address 158)

Tone check: use key 1↘ to enable / disable this option.

Key 1↘ OFF = Tone check **enabled**

Key 1↘ ON = Tone check disabled

Dialling Type: use key 2↗ to select the dialling type.

Key 2↗ ON = DTMF dialling

Key 2↗ OFF = Pulse dialling

Test Event: use key 3↘ to enable / disable this option.

Key 3↘ ON = **Test call** (Teleservice) **enabled**

Key 3↘ OFF = **Test call** (Teleservice) disabled

If the **Test call** (Teleservice) is enabled, the panel will not send a Test event call to the Central Station (see page 57 in the "Installation Manual").

Add.	Description	Data
158	Tone check, Dialling type, Test Event u	

■ Teleservice (Addresses 159 through 164)

Number of rings before the control panel answers: max. 2 digits.

Double call: use key 1↘ to enable / disable this option.

key 1↘ ON = Double call **enabled**

key 1↘ OFF = Double call disabled

Callback: use key 2↗ to enable / disable this option.

Key 2↗ ON = Callback **enabled**

Key 2↗ OFF = Callback disabled

Teleservice telephone number: press the number key that corresponds to the **Teleservice** (Installer) telephone number—accepted keys 1↘ through 8↗.

Test event Interval: enter the number of hours between test events—4 digits maximum.



Minutes: enter the minutes value of the established time of the test event—2 digits.
Delay: enter the number of hours before the established time of the first test event—4 digits maximum (refer o the example).

The **Delay** will start when the programming session closes and will be counted from the **hour** value (e.g. programming session closed at **10:20** delay will start at **10:00**).

Example

Established time **17:30** every **Monday**

Interval: 168 hours (7 days x 24 hours)

Minutes: 30 (established time **17:30**)

Programming session closed at **10:20 Monday**—from **10:00** to **17:00** = 9 hours therefore:

Delay: 9

The Test event will be generated at **17:30**—as the final sum includes the programmed **Delay** of **9** hours and the programmed **Minutes** value of **30**.

However, if the first Test event is required at **17.30** on **Tuesday** or **Wednesday**, etc. the **9** hour **Delay** must be increased by **24** hours for each day.

Add.	Description	Data
159	Number of rings before answer ↘	
160	Enable / Disable Double call ↘ Enable / Disable Callback ↘	
161	Teleservice telephone number (1-8) Callback (9) ↘	
162	period in hh ↘	
163	minutes:mm ↘	
164	delay in hh u (before first test)	

Codes (Addresses 165 through 256)

Each Code has the following: a PIN (4 to 6 digits), a Type, its assigned Partitions, Type A Arming Mode and Type B Arming Mode.

KEYS	CODE TYPE	PARTITIONS (ON=Assigned OFF=Not Assigned)	TYPE A ARMING MODE (ON=Arm OFF=Disarm)	TYPE B ARMING MODE (ON=Arm OFF=Disarm)
1 ↘	Disabled	Partition 1	Partition 1	Partition 1
2 ▲	Main User	Partition 2	Partition 2	Partition 2
3 ▾	User	Partition 3	Partition 3	Partition 3
4 ↗	Duress	Partition 4	Partition 4	Partition4
5 +	Patrol	-		-

- + Installer PIN no. 24 can be changed by the **Installer only** (refer to parameter 257).
The Options and Partitions can be programmed by the **Installer only**.
PINs 1 through 23 can be changed by the **Main User only**.

Add.	Code 1	Data
165	Code type ↘	
166	Assigns partitions ↘	
167	Arming mode A ↘	
168	Arming mode B u	
Add.	Code 2	Data
169	Code type ↘	
170	Assigns partitions ↘	
171	Arming mode A ↘	
172	Arming mode B u	
Add.	Code 3	Data
173	Code type ↘	
174	Assigns partitions ↘	
175	Arming mode A ↘	
176	Arming mode B u	
Add.	Code 4	Data
177	Code type ↘	
178	Assigns partitions ↘	
179	Arming mode A ↘	
180	Arming mode B u	
Add.	Code 5	Data
181	Code type ↘	
182	Assigns partitions ↘	
183	Arming mode A ↘	
184	Arming mode B u	
Add.	Code 6	Data
185	Code type ↘	
186	Assigns partitions ↘	
187	Arming mode A ↘	
188	Arming mode B u	
Add.	Code 7	Data
189	Code type ↘	
190	Assigns partitions ↘	
191	Arming mode A ↘	
192	Arming mode B u	
Add.	Code 8	Data
193	Code type ↘	
194	Assigns partitions ↘	
195	Arming mode A ↘	
196	Arming mode B u	



Add.	Code 9	Data
197	Code type ↘	
198	Assigns partitions ↘	
199	Arming mode A ↘	
200	Arming mode B u	

Add.	Code 10	Data
201	Code type ↘	
202	Assigns partitions ↘	
203	Arming mode A ↘	
204	Arming mode B u	

Add.	Code 11	Data
205	Code type ↘	
206	Assigns partitions ↘	
207	Arming mode A ↘	
208	Arming mode B u	

Add.	Code 12	Data
209	Code type ↘	
210	Assigns partitions ↘	
211	Arming mode A ↘	
212	Arming mode B u	

Add.	Code 13	Data
213	Code type ↘	
214	Assigns partitions ↘	
215	Arming mode A ↘	
216	Arming mode B u	

Add.	Code 14	Data
217	Code type ↘	
218	Assigns partitions ↘	
219	Arming mode A ↘	
220	Arming mode B u	

Add.	Code 15	Data
221	Code type ↘	
222	Assigns partitions ↘	
223	Arming mode A ↘	
224	Arming mode B u	

Add.	Code 16	Data
225	Code type ↘	
226	Assigns partitions ↘	
227	Arming mode A ↘	
228	Arming mode B u	

Add.	Code 17	Data
229	Code type ↘	
230	Assigns partitions ↘	
231	Arming mode A ↘	
232	Arming mode B u	



Add.	Code 18	Data
233	Code type ↘	
234	Assigns partitions ↘	
235	Arming mode A ↘	
236	Arming mode B u	

Add.	Code 19	Data
237	Code type ↘	
238	Assigns partitions ↘	
239	Arming mode A ↘	
240	Arming mode B u	

Add.	Code 20	Data
241	Code type ↘	
242	Assigns partitions ↘	
243	Arming mode A ↘	
244	Arming mode B u	

Add.	Code 21	Data
245	Code type ↘	
246	Assigns partitions ↘	
247	Arming mode A ↘	
248	Arming mode B u	

Add.	Code 22	Data
249	Code type ↘	
250	Assigns partitions ↘	
251	Arming mode A ↘	
252	Arming mode B u	

Add.	Code 23	Data
253	Code type ↘	
254	Assigns partitions ↘	
255	Arming mode A ↘	
256	Arming mode B u	

■ **Installer PIN (Address 257)**

Installer PIN: 4 to 6 digits

+ The Installer PIN can be changed by the Installer only.

Add.	Description
257	new Installer PIN v confirm new Installer PIN u

■ **Scheduler (Addresses 258 through 289)**

The Scheduler controls auto-arming of the partitions. The days of the week must be programmed individually.

Accepted format: **hh:mm** (4 digits)

Press to delete the programmed time.



Add.	Timer Partition 1	Data
258	Reserved	
259	arm at time <i>Monday</i> ↘	
260	arm at time <i>Tuesday</i> ↘	
261	arm at time <i>Wednesday</i> ↘	
262	arm at time <i>Thursday</i> ↘	
263	arm at time <i>Friday</i> ↘	
264	arm at time <i>Saturday</i> ↘	
265	arm at time <i>Sunday</i> u	

Add.	Timer Partition 2	Data
266	Reserved	
267	arm at time <i>Monday</i> ↘	
268	arm at time <i>Tuesday</i> ↘	
269	arm at time <i>Wednesday</i> ↘	
270	arm at time <i>Thursday</i> ↘	
271	arm at time <i>Friday</i> ↘	
272	arm at time <i>Saturday</i> ↘	
273	arm at time <i>Sunday</i> u	

Add.	Timer Partition 3	Data
274	Reserved	
275	arm at time <i>Monday</i> ↘	
276	arm at time <i>Tuesday</i> ↘	
277	arm at time <i>Wednesday</i> ↘	
278	arm at time <i>Thursday</i> ↘	
279	arm at time <i>Friday</i> ↘	
280	arm at time <i>Saturday</i> ↘	
281	arm at time <i>Sunday</i> u	

Add.	Timer Partition 4	Data
282	Reserved	
283	arm at time <i>Monday</i> ↘	
284	arm at time <i>Tuesday</i> ↘	
285	arm at time <i>Wednesday</i> ↘	
286	arm at time <i>Thursday</i> ↘	
287	arm at time <i>Friday</i> ↘	
288	arm at time <i>Saturday</i> ↘	
289	arm at time <i>Sunday</i> u	

Clock (Address 290)

Accepted Format: **dd:mm:yyyy** (8 digits) **hh:mm** (4 digits) Example

To program 25 April 2001 - hh.mm = 12:45

Step 1 Select then press .

Step 2 Select then press .

Add.	Description
290	day, month, year v hour and minutes u



Events (Addresses 291 through 418)

KEYS	TELEPHONE NUMBERS TO BE DIALLED	VOICE MESSAGE TO BE SENT
1 ↓	Telephone number 1	Voice message 1
2 ▲	Telephone number 2	Voice message 2
3 ▾	Telephone number 3	Voice message 3
4 ↗	Telephone number 4	Voice message 4
5 +	Telephone number 5	Voice message 5
6 ≈	Telephone number 6	Voice message 6
7 ▤	Telephone number 7	Voice message 7
8 ↑	Telephone number 8	Voice message 8
9 €	-	No Voice message

Assign the telephone numbers, the event code, the voice messages to each of the 128 events (refer to the table on the following page).

Telephone numbers Use keys 1 ↓ and 8 ↑ to select the telephone numbers to dial for the event in question.
 Key **ON** = Telephone number **will be** dialled
 Key **OFF** = Telephone number **will not be** dialled

Event code Assign a 2 digit code to each event. Use keys 0 ↓ through 9 € and super keys 1 ↓ through 6 ≈ for HEX digits A, B, C, D, E and F.

+ The event with code 00 will not generate calls to the Central station.

Voice message Use keys 1 ↓ through 8 ↑ to assign a Voice message to the event.
 Key **ON** = Voice message **will be** sent
 Key **OFF** = Voice message **will not be** sent

Use key 9 € to clear the voice message that corresponds to the event.

+ Events with no Voice message will not generate voice calls.

Add.	Description
xxx	Telephone numbers v Event code v Voice message u
...	...

The following table shows the **list of Events** that can activate the digital and voice communicators.

- The **Add.** column shows the address of each event.
- The **no.** column shows the identifier number of each event (corresponding to the identifier no. in the Events page in the software suite).



- The **TELEPHONE NUMBER** columns are for the telephone numbers that will be dialed when the event occurs.
- The **EC** column is for the Code assigned to the event.
- The **VOICE MESSAGE** columns are for the Voice message that will be sent when the event occurs.
- The **T** column shows the non-modifiable part of the Contact ID protocol code (assigned to the event type by the control panel).
- The **A** column shows the Contact ID protocol code assigned to the event when the Automatic Code Programming option is selected (refer to "Events" Add 426).

Use this row for the Telephone Numbers and Voice Messages			TELEPHONE NUMBER								VOICE MESSAGES									
			1	2	3	4	5	6	7	8	EC	1	2	3	4	5	6	7	8	A
291	01	Alarm partition 1																	1	00
292	02	Alarm partition 2																	1	00
293	03	Alarm partition 3																	1	00
294	04	Alarm partition 4																	1	00
295	05	Alarm zone 1																	1	3A
296	06	Alarm zone 2																	1	3A
297	07	Alarm zone 3																	1	3A
298	08	Alarm zone 4																	1	3A
299	09	Alarm zone 5																	1	3A
300	10	Alarm zone 6																	1	3A
301	11	Alarm zone 7																	1	3A
302	12	Alarm zone 8																	1	3A
303	13	Tamper																	1	45
304	14	Mains failure Trouble																	3	A1
305	15	Battery Trouble																	3	A2
306	16	Fuse Trouble																	3	00
307	17	BPI Trouble																	3	3A
308	18	Reset Alarm zone 1																	1	3A
309	19	Reset Alarm zone 2																	1	3A
310	20	Reset Alarm zone 3																	1	3A
311	21	Reset Alarm zone 4																	1	3A
312	22	Reset Alarm zone 5																	1	3A
313	23	Reset Alarm zone 6																	1	3A
314	24	Reset Alarm zone 7																	1	3A
315	25	Reset Alarm zone 8																	1	3A
316	26	Reset tamper																	1	45
317	27	Reset mains failure Trouble																	3	A1
318	28	Reset battery Trouble																	3	A2
319	29	Reset fuse Trouble																	3	00
320	30	Reset BPI Trouble																	3	3A
321	31	Super key 1																	1	15



Use this row for the Telephone Numbers and Voice Messages			TELEPHONE NUMBER								VOICE MESSAGES									
			1	2	3	4	5	6	7	8	EC	1	2	3	4	5	6	7	8	A
Add.	no.	DESCRIPTION																		
322	32	Super key 2																	1	AA
323	33	Super key 3																	1	2A
324	34	Arm partition 1																	4	02
325	35	Arm partition 2																	4	02
326	36	Arm partition 3																	4	02
327	37	Arm partition 4																	4	02
328	38	Disarm partition 1																	4	02
329	39	Disarm partition 2																	4	02
330	40	Disarm partition 3																	4	02
331	41	Disarm partition 4																	4	02
332	42	Arm Special partition 1																	4	02
333	43	Arm Special partition 2																	4	02
334	44	Arm Special partition 3																	4	02
335	45	Arm Special partition 4																	4	02
336	46	Disarm Special partition 1																	4	02
337	47	Disarm Special partition 2																	4	02
338	48	Disarm Special partition 3																	4	02
339	49	Disarm Special partition 4																	4	02
340	50	Arm / DisA. by Code 1																	4	22
341	51	Arm / DisA. by Code 2																	4	22
342	52	Arm / DisA. by Code 3																	4	22
343	53	Arm / DisA. by Code 4																	4	22
344	54	Arm / DisA. by Code 5																	4	22
345	55	Arm / DisA. by Code 6																	4	22
346	56	Arm / DisA. by Code 7																	4	22
347	57	Arm / DisA. by Code 8																	4	22
348	58	Arm / DisA. by Code 9																	4	22
349	59	Arm / DisA. by Code 10																	4	22
350	60	Arm / DisA. by Code 11																	4	22
351	61	Arm / DisA. by Code 12																	4	22
352	62	Arm / DisA. by Code 13																	4	22
353	63	Arm / DisA. by Code 14																	4	22
354	64	Arm / DisA. by Code 15																	4	22
355	65	Arm / DisA. by Code 16																	4	22
356	66	Arm / DisA. by Digital key 1																	4	22
357	67	Arm / DisA. by Digital key 2																	4	22
358	68	Arm / DisA. by Digital key 3																	4	22
359	69	Arm / DisA. by Digital key 4																	4	22
360	70	Arm / DisA. by Digital key 5																	4	22
361	71	Arm / DisA. by Digital key 6																	4	22
362	72	Arm / DisA. by Digital key 7																	4	22
363	73	Arm / DisA. by Digital key 8																	4	22
364	74	Arm / DisA. by Digital key 9																	4	22
365	75	Arm / DisA. by Digital key 10																	4	22



Use this row for the Telephone Numbers and Voice Messages			TELEPHONE NUMBER								VOICE MESSAGES									
			1	2	3	4	5	6	7	8	EC	1	2	3	4	5	6	7	8	A
366	76	Arm / DisA. by Digital key 11																	4	22
367	77	Arm / DisA. by Digital key 12																	4	22
368	78	Arm / DisA. by Digital key 13																	4	22
369	79	Arm / DisA. by Digital key 14																	4	22
370	80	Arm / DisA. by Digital key 15																	4	22
371	81	Arm / DisA. by Digital key 16																	4	22
372	82	Command via modem																	4	22
373	83	Reset Memory partition 1																	6	00
374	84	Reset Memory partition 2																	6	00
375	85	Reset Memory partition 3																	6	00
376	86	Reset Memory partition 4																	6	00
377	87	Bypass zone 1																	5	7A
378	88	Bypass zone 2																	5	7A
379	89	Bypass zone 3																	5	7A
380	90	Bypass zone 4																	5	7A
381	91	Bypass zone 5																	5	7A
382	92	Bypass zone 6																	5	7A
383	93	Bypass zone 7																	5	7A
384	94	Bypass zone 8																	5	7A
385	95	Unbypass zone 1																	5	7A
386	96	Unbypass zone 2																	5	7A
387	97	Unbypass zone 3																	5	7A
388	98	Unbypass zone 4																	5	7A
389	99	Unbypass zone 5																	5	7A
390	100	Unbypass zone 6																	5	7A
391	101	Unbypass zone 7																	5	7A
392	102	Unbypass zone 8																	5	7A
393	103	Test																	6	A2
394	104	Telephone line Trouble																	3	54
395	105	Reset telephone line																	3	54
396	106	Disarm by duress partition 1																	1	21
397	107	Disarm by duress partition 2																	1	21
398	108	Disarm by duress partition 3																	1	21
399	109	Disarm by duress partition 4																	1	21
400	110	Event buffer 70 % full																	1	00
401	-	Failed call to Tel.Num. 1																	3	05
402	-	Failed call to Tel.Num. 2																	3	05
403	-	Failed call to Tel.Num. 3																	3	05
404	-	Failed call to Tel.Num. 4																	3	05
405	-	Failed call to Tel.Num. 5																	3	05
406	-	Failed call to Tel.Num. 6																	3	05
407	-	Failed call to Tel.Num. 7																	3	05
408	-	Failed call to Tel.Num. 8																	3	05
409	-	Auto-bypass zone 1																	5	7A
410	-	Auto-bypass zone 2																	5	7A



Use this row for the Telephone Numbers and Voice Messages			TELEPHONE NUMBER								VOICE MESSAGES									
			1	2	3	4	5	6	7	8	EC	1	2	3	4	5	6	7	8	A
411	-	Auto-bypass zone 3																	5	7A
412	-	Auto-bypass zone 4																	5	7A
413	-	Auto-bypass zone 5																	5	7A
414	-	Auto-bypass zone 6																	5	7A
415	-	Auto-bypass zone 7																	5	7A
416	-	Auto-bypass zone 8																	5	7A
417	-	Reserved - Do not program!	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
418	-	Reserved - Do not program!	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

■ Programming digital keys (Addresses 419 through 422)

New Random code Address 419

Step 1 Enter 419.

Step 2 Press .

Step 3 Press to confirm and step back to PHASE 1.

Operation Done will be confirmed by a long high-tone beep.

Step 4 Press to exit without saving, and step back to the PHASE 1.

Digital key programming Address 420:

Step 1 Enter 420.

Step 2 Press .

Step 3 Enter a valid key reader number.

Step 4 Press .








Step 5 Enter any key number (1 through 128).

Step 6 Press .


+ If no key number is selected, and is pressed, the digital key number will correspond to the current number stored in the control panel memory. To program the digital key features:

IMPORTANT Digital keys with factory programming can operate this control panel, however, this will lower the security level considerably. In order to assure the intended level of security each digital key must be programmed with a random code.





KEYS	Setting options	Data
1 	digital key valid on partition 1	
2 	digital key valid on partition 2	
3 	digital key valid on partition 3	
4 	digital key valid on partition 4	
5 	valid service digital key (for service mode)	
6 	valid digital key (non-service)	
7 	enable digital key for reset call queue	

- Insert the digital key into the selected key reader and wait for the beep. During this phase it will be possible to program all the digital keys, and also change the setting options displayed on the keypad. All digital keys programmed after 128 will be clones, that is, with identical features as digital key 128.

Press  to exit.

To read a new Random code on a digital key Address 421:

- Step 1** Enter 421.
- Step 2** Press .
- Step 3** Select key reader: 1 through 16.
- Step 4** Press .
- Step 5** Insert the digital key to read the random code. A long high-tone beep will confirm **Operation Done**.

Add.	Description
419	generates new Random code u
420	select key reader v select key no. v set options and insert key
421	select key reader v insert key to read new random code
422	select key no. v set options u (Prog.)

Electronic keys for MASTER / SLAVE systems

A MASTER / SLAVE system must have 2 or more control panels. MASTER / SLAVE systems are configured as follows: **1)** one MASTER control panel; **2)** one (or more) SLAVE control panel(s). Electronic keys **must be programmed** on the MASTER control panel, and can be used **on all the control panels of a MASTER / SLAVE system**.

To configure a control panel as **MASTER**: carry out **Address 419** procedure. Only the MASTER control panel can change the identification number (1 through 128) of electronic keys.

To configure a control panel as **SLAVE**: use a valid electronic key and follow **Address 421** procedure. SLAVE control panels can program the options of valid electronic keys only. The factory default programming of the control panel is **MASTER**.



Options (Addresses 423 to 425)

Addresses 423 to 425 are for **Options** programming. During Options programming the keys will take on the meaning shown in the following tables: Key **OFF** = option **disabled**; Key **ON** = option **enabled**.

Addr.	Keys	OPTIONS	DEFAULT
423	1 ↓	Auto-reset partition no. 1	
	2 ▲	Auto-reset partition no. 2	
	3 ▾	Auto-reset partition no. 3	
	4 ↗	Auto-reset partition no. 4	
	5 +	False Digital Key signalling	
	6 ≡	Immediate Mains Failure signalling	
	7 📄	Key reader LEDs permanently active	
	8 ↑	Telephone line check	
	ENTER	U	

424	1 ↓	Arm / DisA. partition no. 1 by Ter. [K]	
	2 ▲	Arm / DisA. partition no. 2 by Ter. [K]	
	3 ▾	Arm / DisA. partition no. 3 by Ter. [K]	
	4 ↗	Arm / DisA. partition no. 4 by Ter. [K]	
	6 ≡	Enable Instant Reset of zone alarm	
	7 📄	Start Test event	
	8 ↑	Two-way audio alert	
	ENTER	U	

425	1 ↓	Reset tamper memory denied to User Code	
	2 ▲	Reset alarm memory denied to Installer Code	
	3 ▾	Arming denied with battery trouble	
	4 ↗	Enable Installer Code for User Code PIN programming via PC	
	5 +	Enable Call all for the Central station calls	
	6 ≡	Enable Call all for Voice calls	
	7 📄	Bypass Zone Tamper	
	8 ↑	Enable Auto-bypass	
	ENTER	◆	



Enable Installer Code PIN for User Code PIN programming via PC

When this option is enabled the Installer can program all the User Code PINs via PC (the Main User PIN will not be required). However, the Installer Code PIN must be entered in the **Installer Code** page. The words **Freed PIN Programming** on the title bar of the **PIN Programming** window will flash to signal option enabled.

+ This option can be enabled from the keypad only.

WARNING Use of **Freed PIN programming** lowers the security level of the system, and is done at the **Installer's own risk**. The customer must be informed of the possible consequences.

Events (Address 426)

Address 426 is for automatic programming of the Contact ID Event Codes (refer to the table on page 26).

426	1 ↓	Automatic Programming for Contact ID	
	2 ▲	Delete Event Codes and clear all telephone numbers	
	ENTER	◆	

Telephone (Address 427)

Address 427 is for the length of time (0 through 63 minutes) that the audio channel will be active after a Central station call (accepted keys 0 ↓ through 9 ↻).

Options (Address 428)

Address 428 is for switching from **NC2TAST** (LEDs 1 through 8 OFF) to **ICON/KP** keypads (LEDs 1 through 8 ON). Press 1 ↓ to toggle the status of the 8 LEDs.

Options (Address 429)

Arm squawk: if this option is enabled, arming by a command zone or terminal K will momentary switch the siren relay to on, therefore a short squawk will be emitted (<1 sec.).

Key 1 ↓ **ON**: Options enabled;

Key 1 ↓ **OFF**: Options disabled;