

CUSTOMER IDENTITY:

MAESTRO-1600DL PROGRAMMING WORK SHEET

1. GENERAL GUIDANCE

Programming: All programming is carried out in the Installer Mode.

Installer Mode: In the disarmed state, enter \bigcirc **[INSTALLER CODE]** \rightarrow **[#]** \rightarrow **[7]**. The "victory" melody sounds and "Installer Mode" is displayed on the screen, confirming the mode transition.

Entering a Location: With "Installer Mode" displayed on the screen, press the location number required. The "victory" melody sounds and "Location" is displayed followed by the number selected.

Exit: You may press [#] at any stage to exit a location and save your changes.

LED Keypads: see note 2.

2. PROGRAMMING THE ALARM CONTROL PARAMETERS

LOCATION 01 - Installer Code

Code	Installer					
Default	1	6	0	0		
New						

⚠ The default code must be changed at time of installation

LOCATION 02 - System Functions

A This location uses a toggle key action - See Note 1 on last page

This location determines how the system will react under certain conditions											
KEY	1	2	3	4	5	6	7	8			
Default	1	1	0	0	0	0	0	0			
New											

		- program			
Key	Associated Function	State	Code Significance		
[1]	Exit delay warning	1	Exit delay warning beeps enabled.		
		0	Exit delay warning beeps will be disabled.		
[2]	Entry delay warning	1	Entry delay warning beeps enabled.		
		0	Entry delay warning beeps disabled.		
[3]	Response to alarm from Quick-Action Key	e to alarm from Quick-Action Key 1 The siren or bell will sound.			
		0	A "silent alarm" will be activated.		
		1	COMM. FAIL: PGM-1 pulls to ground for 4 seconds upon		
[4]	PGM-1 output assignment		communication failure and then goes HIGH again.		
		0	ARM/DISARM: PGM-1 pulls to ground upon arming and goes		
			HIGH once the system is disarmed.		
[5]	PGM-2 output assignment	1	Courtesy light: PGM-2 pulls to ground during exit/entry delays.		
		0	<u>READY</u> : PGM-2 pulls to ground when the system is ready (all		
			zones are secured).		
[6]	PGM-3 output assignment	1	PGM-3 is adapted for smoke detector control.		
		0	Strobe: PGM-3 pulls to ground upon alarm, and goes HIGH		
			when the system is disarmed or armed		
[7]	Zone expander	1	Installed: The system includes a zone expander.		
		0	Not installed: The system does not include a zone expander.		
[8]	Communicator reporting mode	1 The communicator reports to private telephone ow			
		0	The communicator reports to central stations		

Table 1 List of programmable system functions

LOCATION 03 - Setting the System Timers

The settings in this location determine the timer duration for the tasks in table 2.

Timer	`	1	2	2	~ *	3	4	1	Ę	5	e	5	17	7	8	3
Default	6	0	3	0	0	4	3	0	0	0	0	0	2	4	0	3
New																

Table 2. List of System Timers and their Tasks

Timer No.	Assignment	Duration	Functions					
<1>	<1> Entry delay timer 00		The time allowed to enter & disarm the system before activation					
<2>	<2> Exit delay timer 00 - 99 s		Permits leaving the premises before arming takes effect					
<3> Bell timeout 01 - 99 m		01 - 99 m	Determines how long the bell/siren will sound upon alarm					
<4>	<4> AC failure delay 01 - 99 m		Determines how long will an AC failure report be delayed					
<5>	Event report	01 - 99 s	Determines delay before event is reported (excludes AC failure reports)					
<6>	1st autotest delay	00 - 99 h	Delays the 1st autotest by the programmed number of hours					
<7> Autotest interval 00 - 99 h		00 - 99 h	Determines the time interval between consecutive autotests					
<8> Swinger shutdown 01 - 99		01 - 99	Number of alarm cycles allowed before a zone is temporarily disabled					

LOCATION 04 - Zone Types (1 - 8)

This location defines the attributes of each zone.

Zone	1	2	3	4	5	6	7	8
Default	1	1	1	1	1	1	1	1
New								

LOCATION 05 - Zone Types (9 - 16)

Applies only to systems fitted with zone expanders

9	10	11	12	13	14	15	16
0	0	0	0	0	0	0	0

Table 3. Zone Type & Attribute Codes

Zone Type	Code
Zone disabled	0
Instant	1
Delay, Type 1 (does not affect ready / not ready display)	2
Delay Type 2 (does affect ready / not ready display)	3
Follower type 1 (does not affect ready / not ready display)	4

Zone Type	Code
Follower type 2 (affects ready / not ready display)	5
24-hours: bell (arm / disarm)	6
24-hours: bell (arm) / buzzer (disarm)	7
Fire	8
Keyswitch	9

A BE AWARE - Locations 6 - 13 use a toggle key action - See *Note 1*. on last page

For easy recognition, all toggle Key Zones are shown like this separated by double lines



LOCATION 06 - Silent/Audible Alarm (1 - 8)

Determines the silent/audible alarm status in each zone.										
Zone/Key	1	2	3	4	5	6	7	8		
Default	0	0	0	0	0	0	0	0		

New 0 Audible

1 Silent

LOCATION 08 - Priority Zones (1 - 8)

This location indicates which zones are designated as priority

Zone/Key	1	2	3	4	5	6	7	8
Default	0	0	0	0	0	0	0	0
New								

1 Priority Zone

0 Non Priority Zone

LOCATION 10 - Chime Zones (1 - 8)

LOCATION 07 - Silent/Audible Alarm (9 - 16)

4	Applies only to systems fitted with zone expanders												
	9	10	11	12	13	14	15	16					
	0	0	0	0	0	0	0	0					

LOCATION 09 - Priority Zones (9 - 16)

Applies only to systems fitted with zone expanders

9	10	11	12	13	14	15	16
0	0	0	0	0	0	0	0

Note: Priority zones cannot be bypassed

LOCATION 11 - Chime Zones (9 - 16)

This location Indicates which zones are designated as chime zones expanders

Zone/key	1	2	3	4	5	6	7	8
Default	0	0	0	0	0	0	0	0
New								

Applies only to systems fitted with zone

9	10	11	12	13	14	15	16
0	0	0	0	0	0	0	0

1 Designated as a chime zone

0 Designated as a non-chime zone

Two beeps sound whenever a "chime zone" is opened

LOCATION	12 - Perimeter Zones (1 - 8)	

Indicates which zones are designated as perimeter / interior zones expanders

Zone/key	1	2	3	4	5	6	7	8
Default	0	1	1	1	1	1	1	1
New								

1 Perimeter zone - active in the HOME mode

LOCATION 13 - Perimeter Zones (9 - 16)

Applies only to systems fitted with zone

Applies	oniy	to sy	/stems	nttea	with	zone

9	10	11	12	13	14	15	16
1	1	1	1	1	1	1	1

0 Interior zone - inactive in the HOME mode

3. COMMUNICATOR PARAMETER DEFINITIONS

LOCATION	14 - 1 st Cl	nannel Tel	lephone Numbe	r

The telephone number may not exceed 16 digits (including pauses)

To program pauses between dialed digits, the following entries are available

- [*] [1] Hex (B) Cue for pager.
- [*] [2] Hex (C) Wait 8 seconds or wait for dial tone (whichever comes first), and continue dialing.
- [*] [3] Hex (D) Wait 10 seconds for a dial tone and disengage the line if none is received.
- [*] [4] Hex (E) Wait 10 seconds and continue dialing.

LOCATION 15 - 1 st Channel Backup Telephone Number

This number will only be called only if communication with the first priority telephone number fails

			LC	OCATIO	DN 10	6 - Ac	count	Code	e - 1 st	Centr	al Sta	ation			
This a	ccou	nt nui	mber i	dentifie	es the	subso	riber	to the	centra	I stati	on				
				To pr	ogran	n a 3-d	igit acc	count c	ode, a	dd a "()" as th	ne last	digit		
			l	OCAT	ION	17 - 2	nd Cha	annel	Telep	hone	Num	ber			
			LOC	ATION	18 -	2 nd Cl	hanne	el Bac	kup T	eleph	ione I	Numb	er		
	LC	CAT	ION 1	9 - Ac	coun	t Cod	e - 2 ^{nc}	Cent	ral St	ation					
				Whe	n pro	gramm	ing a 3	B-digit a	accoun	t code	, add a	a "0" as	the la	st digi	t

LOCATION 20 - Dialing Method

This procedure determines whether Pulse or DTMF dialing will be used.

Default 1 [1] DTMF			
New [2] Pulse			
LOCATION 21 - Mark / Space Values			
This procedure determines mark/space durations and ratios for pulse dialing.			
Default 1 [1] 40/60 [3] 60/40			
New [2] 34/66 [4] 66/34			
LOCATION 22 - Data Verification Method			
This setting determines whether Double Round or Checksum verification will be used by the communicator.			
Default 1 [1] Double Round			
New [2] Checksum			
LOCATION 23 - Data Transmission Rate			
This location determines the data transmission rate			
These settings are not valid if low speed pulse protocols has been selected in Location 24			
Default 2 [1] 10 pps [3] 33 pps			
New [2] 20 pps [4] 40 pps			
LOCATION 24 - Protocol Type			
This location selects the protocols used for information exchange with the central stations			
00 1900/1400 Pulse 4X Stratel old (X=No. of groups) 81 Robofon 1 - CCCC	C ØØEE		
10 1800/2300 Pulse 50 Contact ID 82 Robofon 2 - CCCC			
21 4/2 DTMF 70 Scancom 84 Robofon 4 - EEØØ			
3X Stratel new (X=No. of groups) 85 Robofon 5 - $\emptyset \emptyset C$	CCCEE		
Default 0 0 CCCC Custome	r Number		
New EE Event			
LOCATION 25 Report Destinctions			
LOCATION 25- Report Destinations This location determines the report destinations for various event groups			
1 st 2 nd 3 rd [0] None (no report	tina)		
Group Zone alarms and restorals Arm/disarm events Maintenance events [1] 1 st central statio	on only		
Default 1 1 1 [2] 2nd central stati	ion only		
New [3] 1st & 2nd centra	al station.		
4. DEFINING THE EVENT CODES			

LOCATION 26 - Alarms in Zones (1 - 8)

LOCATION 27 - Alarms in Zones (9 - 16)

Event Codes are reported to the central stations by transmitting a 2-digit hexadecimal code. Available reporting formats are 3/1, 3/2, 4/1, 4/2 and 4/2 + checksum. Single digit codes must have a "0" suffix - e.g. 3 is entered as 30 and C as C0. *IMPORTANT! It is strongly recommended to program code "00" (no reporting) for each event that is not to be reported.*

Zone	1	2	3	4	5	6	7	8
Default	FF							
New								

Applies	only to	system	s fitted	with zo	ne expa	anders
-						

9	10	11	12	13	14	15	16
FF							

LOCATION 28 - Restorals Zones (1 - 8)

In this location you assign event codes to restorals

Zone	1	2	3	4	5	6	7	8
Default	00	00	00	00	00	00	00	00
New								

LO	LOCATION 30 - "System Armed" Reports											
Registers 8 arming codes for up to 8 users												
User	1	2	3	4	5	6	7	8				
Default	00	00	00	00	00	00	00	00				
New												

You can assign a different arm & disarm code to each user so that the central station can identify who arms/disarms the system

LOCATION 32 - Special Arming/Disarming Modes

Registers codes for reporting 8 special arming and disarming

Mode	1	2	3	4	5	6	7	8
Default	00	00	00	00	00	00	00	00
New								

Special Arming and Disarming Modes

1	Quick arming
2	Key on
3	Key off
4	Force arming
5	Ambush
6	Partial arming (one or more zones by-passed)
7	Disarming after an alarm
8	Home arming

LOCATION 34 - 2nd Grp of Maintenance Reports

This location registers codes for reporting the 2nd group of maintenance-related events.

Event	1	2	3	4	5	6	7	8
Default	00	00	00	00	00	00	00	00
New								

2nd Group of Maintenance Report Codes

1	Zone trouble					
2	Fire zone trouble					
3	Keypad bus error					
4	Expander bus error					
5	Keypad bus restoral					
6	Expander bus restoral					
7	Manual test					
8	Auto-test					

LOCATION 36 - 4th Grp of Maintenance Reports This location registers codes for reporting the 4th group of maintenance-related events.

Event	1	2	3	4	5	6	7	8
Default	00	00	00	00	00	00	00	00
New								00

LOCATION 29 - Restorals Zones (9 - 16)

Applies only to systems fitted with zone expanders									
	9	10	11	12	13	14	15	16	

3	10		12	15	1-7	15	10
00	00	00	00	00	00	00	00

LOCATION 31 - "System Disarmed" Reports

F	Registers disarming codes for up to 8 users											
	1	2	3	4	5	6	7	8				
	00	00	00	00	00	00	00	00				

LOCATION 33 - 1st Grp of Maintenance Reports

Registers codes for reporting the first group of modes maintenance-related events

1	2	3	4	5	6	7	8
00	00	00	00	00	00	00	00

1st Group of Maintenance Report Codes

1	AC failure
2	Low battery
3	Siren fuse failure
4	Aux. Fuse failure
5	AC restoral
6	Battery restoral
7	Siren fuse restoral
8	Aux. Fuse restoral

LOCATION 35- 3rd Grp of Maintenance Reports This location registers codes for reporting the 3'

group of maintenance-related events.

1	2	3	4	5	6	7	8
00	FF	FF	FF	00	00	00	00

3rd Group of Maintenance Report Codes

-		•
	1	Alarm cancellation
	2	Quick-action alarm (key "B")
	3	Quick-action alarm (key "A")
	4	Quick-action alarm (key "C")
	5	Accessed by remote terminal
	6	Arming from a remote terminal
	7	Disarming from a remote terminal
	8	By-passing from a remote terminal

4th Group of Maintenance Reports

- Wireless low battery 1
- 2 Wireless supervision alert
- 3 Wireless transmitter tamper alert
- 4 Wireless channel jamming

5 Expander module tamper

- Fire zone shutdown 6
- 7 Communicator restore
- 8 Reserve (undefined)

5. DEFINING ID AND REMOTE CONTROL CODES

LOCATION 37 - Downloader's ID

ID		Downloader										
Defau	ılt	1	2	3	4	5	6		A The def	ault	code mu	ist be changed upon installation
New	,											
			ΔΤΙΟΝ	38 -	Contro	ol Pane	al'e II					
eaister	rs the								emote compu	er		
ID			Contro				,	• •	b.			
Defau	114	1	2	3	4					lt co	odo muet	be changed upon installation
		1	2	5	4			L				be changed upon installation
New	1											
LO	CAT	ION 3	39 - Re	emote	Contro	ol by C	compi	ıte	i Note:	Th	is locatio	n uses a toggle action.
							-		mote compute			
Key		1	2	3	4	5	6		7 8			
Defau		1	1	1	1	1	1		1 1			
					-	1	1					
New												
able 5					utable	Functio	ns	_				
Key			Name						Control Code	-		
1		<u> </u>	ne syst					1	Permitted	0	Forbidde	
2			g the s					1	Permitted	0		
3			g zone					1	Permitted	0		
4			ning a					1	Permitted	0		
5		<u> </u>	ning te		ne num	nbers		1	Permitted	0		
6			om me					1	Permitted	0	Forbidde	
7			d into n	nemor	у			1	Permitted	0		
8	Ren	note c	control					1	Enabled	0	Disabled	L Contraction of the second seco
LOC	CATI	ON 4	0 - Re	mote	Contro	bl by T	eleph	on	e Note:	Th	is locatio	n uses a toggle action.
ermits/	/deni	ies rer	note pr	rogram	mina k	ov telep	hone		5	-2. L	ist of Rem	notely Executable Functions
			2	Ŭ	5		Ke		Fund			Control Code Significance

Enter [INSTALLER CODE]. This process resets the system default codes, i.e. the master code to -
1 2 3 4, and the installer code to - 1600. In addition, locations 3 - 13, and location 01 are also reset to the default

NOTES

Arming the system

Programming Tel. Nos.

1

2

1 - Permitted

1 - Permitted

Default

New

1

codes. Location 02 is not reset.

LOCATION 41 - Reset to Factory Defaults

0 - Forbidden

0 - Forbidden

Note 1

Toggle Key Zones:

Toggle between 0 and 1 by successively pressing the key that represents the required zone or function. Zones 9 - 16 are linked in **ascending** order to keys 1 - 8 on the keypad.

For easy recognition, Toggle Key Zones are shown separated by double lines

	_	

Note 2

Applies only to LED Keypads

- 1 means that the corresponding zone LED is on
- 0 means that the corresponding zone LED is off.

Additional Notes	

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