SUPPLEMENT TO: INSTALLATION AND SETUP GUIDE FOR FBII OMNI®400 AND FBII OMNI®600

RE: OMNI®400N and OMNI®600N Version 1.X Changes

FEATURES OF OMNI400N AND OMNI600N

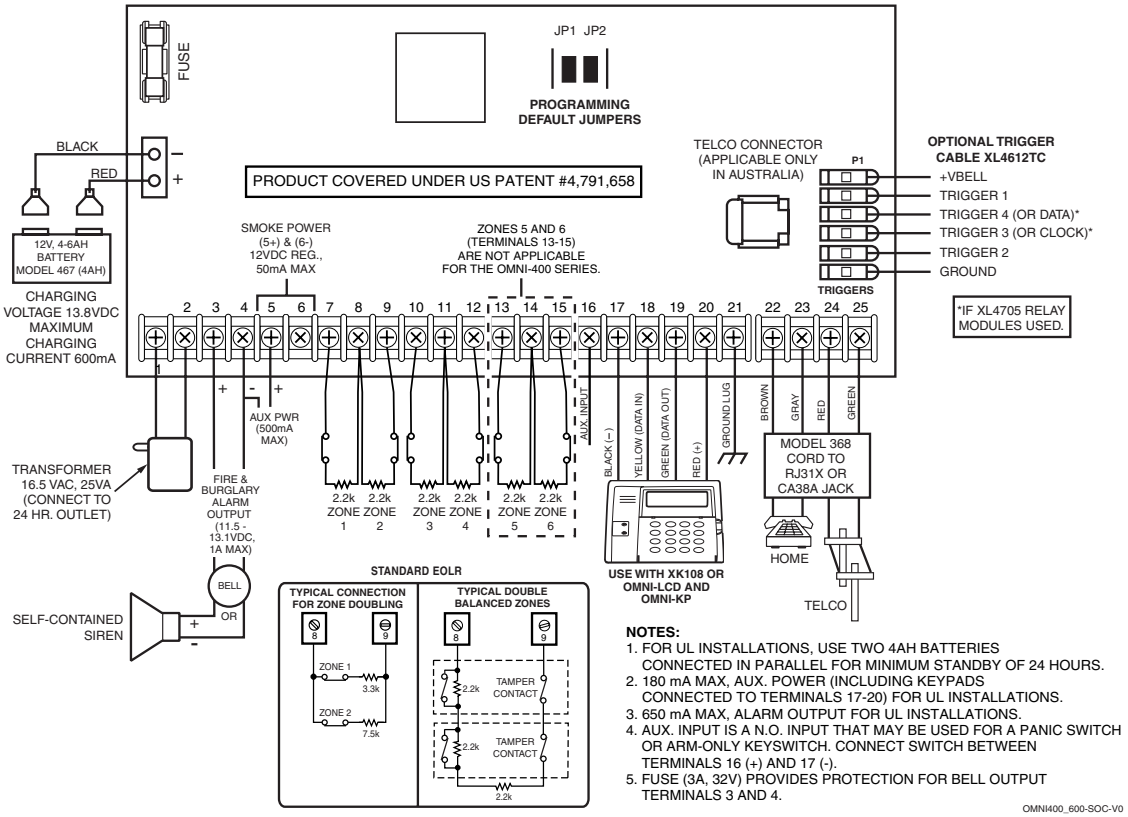
- Robophone compatible CS Reporting Format including 6-digit account number
- Fast Tamper for Zone 4 (OMNI400N) or Zone 6 (OMNI600N)
- 32-digit Primary, Secondary, and Callback Telephone Numbers
- Not Ready/2X
- Strobe Timer
- Arming disable during phone failure
- Final Exit feature that decreases exit delay on exit
- Interior Suspend option to suspend faulted interior zones at the end of exit time
- DNV Battery Test
- 10-second Battery Test Trigger
- 256 Event History Log
- Alarm Verification with report code
- Trigger – Armed when no Alarm

KEYPAD SUPPORT

- XK LCD Series Keypads are not supported in OMNI400N and OMNI600N
- OMNI400N and OMNI600N support an expanded LCD character set display

SYSTEM WIRING DIAGRAM

The OMNI400N and OMNI600N uses a different printed circuit board assembly. The illustration below provides a system wiring diagram:



NOTES:

1. FOR UL INSTALLATIONS, USE TWO 4AH BATTERIES CONNECTED IN PARALLEL FOR MINIMUM STANDBY OF 24 HOURS.
2. 180 mA MAX, AUX. POWER (INCLUDING KEYPADS CONNECTED TO TERMINALS 17-20) FOR UL INSTALLATIONS.
3. 650 mA MAX, ALARM OUTPUT FOR UL INSTALLATIONS.
4. AUX. INPUT IS A N.O. INPUT THAT MAY BE USED FOR A PANIC SWITCH OR ARM-ONLY KEYSWITCH. CONNECT SWITCH BETWEEN TERMINALS 16 (+) AND 17 (-).
5. FUSE (3A, 32V) PROVIDES PROTECTION FOR BELL OUTPUT TERMINALS 3 AND 4.

OMNI400_600-SOC-V0

PROGRAMMING QUESTIONS

To provide these new features, the functions of some of the programming question digits have changed. The programming question digits that have changed are provided below:

Submode 1, System Options

QUESTIONS 01-04 – TELEPHONE and PAGER NUMBERS

Enter the telephone number (including area code and/or dialing prefix, IF NECESSARY) of the primary central station receiver in Question 01, L1–L32.

Example: If the primary telephone number to be entered is 1-516-123-4567, enter (on Programming Worksheet): 15161234567.

Enter the valid digits from the table that follows.

Entry	Function	Comments
0–9	0–9	
A	Signifies end of the phone number	Enter after last digit of phone number
B	Star (✱)	Enter whenever the star is used
C	3-Second pause	Provides delay to wait for dial tone
D	Pound (#)	Enter whenever the pound is used
E	✱ 70C (TouchTone) 1170C (Rotary)	Enter to disable Call Waiting
F	800	Enter to dial 800

REPORTING ROUTE: The system can report to 1 or 2 central station phone numbers. If you select split reporting, then OPENING and CLOSING signals will be directed to the secondary phone number, while all other signals will be transmitted to the primary phone number. If you select backup reporting, the panel will alternate between the primary and secondary receivers (if the second phone number is programmed) for a programmable number of attempts (Question 08, L3) to each phone number in the event the signal has not been acknowledged. If you select dual reporting, then signals will be sent to both primary and secondary phone numbers. If neither split nor backup reporting is necessary, then this question may be left as factory-defaulted, and all conditions will be routed to the primary number only.

Enter the telephone number (including area code or dialing prefix, IF NECESSARY) of the secondary central station receiver in Question 02, L1–L32.

QUESTION 01 – PRIMARY TELEPHONE NUMBER

QUESTION 02 – SECONDARY TELEPHONE NUMBER

QUESTION 03 – CALLBACK TELEPHONE NUMBER

Enter the telephone number (including area code or dialing prefix, if necessary) for this control panel to reach the callback number location. The callback number is the optional location of the Downloading Software where the control panel will call during a remote communications (upload/download etc.) session. During remote communications, the programming device and the control panel will first confirm the CS security code. If valid, communications can begin. If a callback number is defined, the control panel will hang up and dial the callback number. For no callback capability, enter "A" in L1–L32.

QUESTION 04 – PAGER TELEPHONE NUMBER

Enter the pager number for reports, up to 16 digits (including area code or dialing prefix, if necessary). For no pager report, enter "A" in L1–L16.

QUESTION 07 – CS DIALER FORMAT AND RECEIVER TYPE

Q 07, L1/L3 — Enter the L1 and L3 digits for the desired dialer format from the table below.

L1/L3 Entry Type	CS Reporting Format	Format Transmission
0	3x1 Standard	PULSE
1	4x1 Standard	PULSE
2	3x1 Extended	PULSE
3	4x1 Extended	PULSE
4	3x1 Partial Extended	PULSE
5	4x1 Partial Extended	PULSE
6	3x2	PULSE
7	4x2	PULSE
8	FBII Superfast	DTMF
9	ADEMCO 4x1 Express *	DTMF
A	ADEMCO 4x2 Express *	DTMF
B	Robophone	PULSED DATA
E	ADEMCO CID *	DTMF

NOTES:

For more information on CS reporting formats, refer to ***Central Station Reporting Formats*** section at the back of the Installation and Setup Guide.

* These formats require a high/low handshake frequency from the CS receiver.

QUESTION 09 – SYSTEM OPTIONS

Q 09, L2 — Enter the L2 digit for the fast tamper enable, XL4705 relay enable, or battery test options from the table below.

L2 Entry	Fast Tamper	XL4705 Relay Enable	Bat. Test 4 Sec/Min
0			
1	✔		
2		✔	
3	✔	✔	
8			✔
9	✔		✔
A		✔	✔
B	✔	✔	✔

Fast Tamper: Sets zone 4 (OMNI400) or zone 6 (OMNI600) tamper to fast response (10ms).

XL4705 Relay Enable: Enables the relay module. If used, the system's built in triggers 3 and 4 will no longer be available as triggers. Instead, they will serve as clock and data lines, respectively, for the relay module.

Battery Test: If enabled, the system battery will be tested for a period of 4 seconds a minute. When not enabled, the battery is tested for 1 second per minute.

QUESTION 11 – ARMING OPTIONS

Q 11, L1 — Enter the L1 digit for the arming options desired from the table below.

L1 Entry	Stay-Arms Stay	Instant Arms Away	Not Ready/ 2X
0			
1	✔		
4		✔	
5	✔	✔	
8			✔
9	✔		✔
C		✔	✔
D	✔	✔	✔

Stay Arms Stay: If enabled, the system will arm in the STAY mode by pressing the [STAY] key (user code not required). Otherwise, the user must press the [STAY] key followed by the user code to arm in STAY mode. When you are using the Contact ID reporting format and Stay Arms Stay is enabled, a Contact ID code of 408 with a user number of 128 is sent to the central station when the system is armed using the STAY key.

Instant Arms Away: If enabled, the system will arm in the AWAY mode by pressing the [INSTANT] key. When you are using the Contact ID reporting format and Instant Arms Away is enabled, a Contact ID code of 408 with a user number of 128 is sent to the central station when the system is armed using the INSTANT key.

Not Ready/2X: If selected, when the user tries to arm the system when a zone is faulted (system not ready), the system will provide a negative acknowledgement, display the faulted zone, and will not arm. To arm the system, the user must enter their code a second time within 15 seconds and the system will arm with the faulted zone bypassed. Note that the STAY and INSTANT keys will also follow the option selected at this location.

NOTES:
- As a result of adding the Not Ready/2X feature, Instant Enabled is always active.
- The Not Ready/2X option will be over-ridden by entry of a Forced Arm command.
- The Not Ready/2X option should not be enabled if any zone types are set to Arm Faulted.

Q 11, L2 — The description supplied in your Installation and Setup Guide applies except for Exit Error. An Exit Error will not be generated for Interior Zones.

Q 11, L3 — Enter the L3 digit from the table below.

L3 Entry	Disable Arm	Exit Extends	No AC/ NAK Arm	No Arm/ Phone Fail
0				
1	✔			
2		✔		
3	✔	✔		
4			✔	
5	✔		✔	
6		✔	✔	
7	✔	✔	✔	
8				✔
9	✔			✔
A		✔		✔
B	✔	✔		✔
C			✔	✔
D	✔		✔	✔
E		✔	✔	✔
F	✔	✔	✔	✔

Disable Arming: If selected, the system cannot be armed. Additionally, a report code of "DD" must be defined in Submode 2, Question 30, L1/L2. This code is sent if a user attempts to arm the system after this option has been set.

Exit Extends: If selected, re-entering the premises during the exit delay time will restart the exit delay timer, allowing someone to exit again without having to disarm, and then rearm the system. This can only occur once during an armed period. See Question 11, L4 for related Quick Exit feature.

No AC/NAK Arm: If selected, when the user tries to arm the system with an AC fail condition, the system will provide a negative acknowledgement and will not arm. To arm the system, the user must enter their code a second time.

No Arm/Phone Fail: If selected, the system cannot be armed during a phone fail condition.

QUESTION 13 – DISPLAY OPTIONS

Q 13, L2 – The description in the Installation and Setup Guide for Daylight Savings Times describes the time change taking place on the first Sunday in April and on the last Sunday in October. In the OMNI400N and OMNI600N, the time change takes place on the last Sunday in March and last Sunday in October.

Q 13, L4 – This location selects the language for the keypad display as follows:

0 = English	2 = Russian	4 = Dutch	6 = Swedish
1 = Norwegian	3 = French	5 = German	7 = Hungarian

QUESTION 17 – STROBE OPTIONS/DNV BATTERY TEST

Q 17, L1 – This location selects a strobe timer value as follows:

0 = 1 Hour	3 = 3 Days	6 = 6 Days
1 = 1 Day	4 = 4 Days	7 = 7 Days
2 = 2 Days	5 = 5 Days	8 = Latch until User Code is entered.

The trigger/relay output that is to be affected by this selection is programmed in Submode 1, Questions 23 through 29 where you must select a trigger/relay type of "Bell Strobe – Internal, no dings" (1A) or "Bell Strobe – External, with dings" (1B).

Q 17, L2 – This location disables/enables the DNV Battery Test as follows:

0 = Disabled 8 = Enabled

If enabled, the system battery will be tested using an "every 10 second" and "24 hour" battery test. Even if enabled, this test will not occur if the dialer is active, any burg or fire bell is on, or during an AC failure. Note that when this option is enabled, if will override the Battery Test selection made in System Options (Question 09, L2).

"Every 10 second" battery test — once every 10 seconds the battery charger is turned off (for approximately 480ms) and a battery sample is taken. If two sequential samples have a bad reading, a battery failure is reported and no additional reports are sent on subsequent bad readings until the condition is restored. A restore can only be obtained by receiving 2 sequential good readings for the every 10 second battery test.

"24 hour" battery test — at 1 PM the system turns off the battery charger and initiates the type 31 relay/trigger (if programmed) to apply a load to the battery for 10 seconds. During this 10-second period, the system will continuously sample the battery at a 480ms rate. If 3 consecutive bad readings are received, testing will be cancelled, the relay/trigger is de-energized, and a report sent. When a "24 hour" battery test failure occurs, the "every 10 second" battery test is stopped until a 24 hour restore is obtained. A failure on the 24 hour battery test is only restored on the next successful "24 hour" battery test or by entry of [CODE] + [*] + Installer Code + [7] which initiates a 10 second battery test as if it were 1 PM.

QUESTION 20 – AUTO-ARM/KEYPAD TAMPER ENABLES

Q 20, L3 – Enter the L3 digit for the final exit and interior suspend options from the table below.

L3 Entry	Final Exit	Interior Suspend
0		
1	✔	
3	✔	✔

Final Exit: If selected, upon exiting through a delay zone, the panel will decrease the remaining exit delay time to 10 seconds when the zone closes. If the remaining exit delay time is already less than 10 seconds, the remaining time will not be affected.

Interior Suspend: When selected, if the interior zones are still violated after exit time expires, they will, instead of going into alarm, exit error, or bypass error, be in a suspended mode until the interior zone physically restores. Bypassing these zones will not be allowed. This option takes precedence over exit error and bypass error for the system.

QUESTIONS 23-29 – TRIGGER/RELAY TYPES

The following Trigger/Relay Type has been added to the existing listing.

Code	Trigger Type	Description
2B	24 Hour Silent Alarm	Follows the state of the sum of all 24 hour silent alarm zones. If any zones loop is faulted, the trigger/relay is on. If all 24 hour silent alarm zones are normal, the trigger is off.
2C	10-Second Battery Test	Applies a 10-ohm load to the battery for 10 seconds during 24-hour battery test. 10-second timer is cleared by a verified battery failure. This trigger can be used for XL4705 relays only. The load is provided by attaching a 10-ohm resistor to the NO contacts that are in parallel with the battery leads.
2D	Armed not Alarmed	Off when in alarm or disarmed. On when armed.

Submode 2, Zone Programming / Report Codes

QUESTIONS 19-31 SYSTEM REPORT CODES

Alarm Verify has been added to the report code area.

	L1	L2	L3	L4
Q 29	Alarm Verify	Zone Tamper	N/A	Trouble Restore

Submode 4, Descriptor Programming

QUESTIONS 01-12 ZONE DESCRIPTORS FOR ZONES 01-08 (OMNI400N) and 01-12 (OMNI600N) QUESTION 13 SYSTEM DESCRIPTOR

New support of International characters.

When programming Zone and Partition Descriptors it is important to note that previous versions have a character set ranging from 0x20 to 0x7f. This version, when used with the expanded display, has increased the character set to 0x20 to 0x9f. If non-expanded displays are installed in the LCD keypad, these additional characters will appear as spaces. The expanded display provides the following additional characters:

80 = Б	88 = У	90 =	98 = Ф
81 = Д	89 = Ц	91 =	99 = ö
82 = Ж	8A = Ч	92 = Г	9A = ô
83 = З	8B = ш	93 =	9B = Ë
84 = И	8C = щ	94 = ö	9C = Ю
85 = Й	8D = Ь	95 = ä	9D = Я
86 = л	8E = Ы	96 = Æ	9E = Ä
87 = П	8F = З	97 = ø	9F = å

CS REPORTING CODES

Certain codes have been added to the dedicated code listing for reporting to the CS Receiver in Contact ID® format to accommodate the new features. A complete listing of the revised dedicated codes is provided below:

DEDICATED CODES			
EVENT CODE	**ENGLISH OUTPUT AT CS RECEIVER**	**EVENT CODE**	**ENGLISH OUTPUT AT CS RECEIVER**
137	Key Tamper	407	Remote Arm
139	Verified Alarm	408	Quick Arm
145*	Keypad Tamper	409	Keyswitch Zone
156	Day Trouble	412*	Download Good
301*	AC Loss	457	Exit Error
309*	Battery Test Fail	459	Recent Close
321	Trouble Bell 1	551*	Dialer Disable (Arm Disable)
371	Trouble-Protection Loop	575	Swinger Bypass (Lockout)
373	Fire Trouble	602*	Test - Periodic
380	Sensor Trouble	607*	Walk Test Mode
381	Loss of RF Supervision	623*	Log 90% Full
383	Sensor Tamper	624*	Log 100% Full
384	RF Low Battery	625*	Time/Date Reset
401	O/C by User	626*	Clock not Set
403	Auto-arm	641*	Senior Watch Trouble (Up & About)
406	Cancel		

*** NOTE:** These codes do not have a Zone/User Code associated with them; system reports 000 for these digits.

System Programming Worksheet

INSTALLER MODE 1 COMMANDS

To…	Press…
Enter Installer Mode 1	[CODE] [✱] *(installer's code)* [1] *(select submode number 1–4)*
Sub Modes: System Options Zone Prog./Report Codes Not Used Descriptor Programming	 *(enter installer mode 1)* [1] *(enter installer mode 1)* [2] *(enter installer mode 1)* [3] *(enter installer mode 1)* [4]
Enter data	appropriate key, then [#] to accept entry
Go to next location in question	[#]
Go to next question	[INSTANT] or [✱] + 2-digit question no.
Go to another submode	[✱] + [BYPASS] + desired submode number 1–4
Exit Program Mode	[STAY]

Enter the data in the spaces provided prior to programming the control. Note that the spaces relate to Locations L1-L4 (in 4 location Questions), Locations L1- L16 (in 16 location Questions) and Locations L1- L20 (in 20 location Questions). Defaults are shown in brackets [ ].

SUBMODE 1: SYSTEM OPTIONS

QUESTION 00: INSTALLER CODE

Q 00 INSTALLER CODE [2468] | | | | | | |

QUESTIONS 01–04: TELEPHONE and PAGER NUMBERS

Q 01 PRIMARY CS NUMBER
[234A…] | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Q 02 SECONDARY CS NO.
[AAA…] | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Q 03 CALLBACK NUMBER
[AAA…] | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Q 04 PAGER NUMBER [AAA…] | | | | | | | | | | | | | | | |

QUESTIONS 05–06: ACCOUNT NUMBERS

Q 05 PRIMARY [123400AA] | | | | | | | A | A |

Q 06 SECONDARY [223400AA] | | | | | | | A | A |

QUESTIONS 07–22: REPORTING and SYSTEM OPTIONS

Q 07 CS FORMAT/RCVR TYPE [E0E0] | | | | |

Q 08 REPORTING OPTIONS [0082] | | | | |

Q 09 SYSTEM OPTIONS [0020] | | | | |

Q 10 OTHER SYSTEM OPTIONS [4100] | | | | |

Q 11 ARMING OPTIONS [8041] | | | | |

Q 12 SOUND OPTIONS [000C] | | | | |

Q 13 DISPLAY OPTIONS [2070] | | | | |

Q 14 LOG OPTIONS [DFE0] | | | | |

Q 15 BELLS/AC DELAY/RING CNT [1138] | | | | |

Q 16 ENTRY-EXIT DELAY/ DIALER DELAY [6630] | | | | |

Q 17 STROBE OPTIONS/DNV BAT. TEST [8800] | | | X | X |

Q 18 SOFT KEYS FOR 1 & 3/7 & 9 [0020] | | | | |

Q 19 SOFT KEYS FOR ✱ & #/ CRYSTAL ADJUST [0000] | | | | |

NOTE: We recommend that the Crystal Adjustment be performed using the Time Set procedures. We do not recommend making L3 and L4 entries in the Installer Mode.

Q 20 AUTO ARM/KEYPAD TAMPER ENABLES [0110] | | | | X

Q 21 AUTO ARM TIME [0000] | | | | |

Q 22 C/S TEST TIME [0000] | | | | |

QUESTIONS 23–29: TRIGGER/RELAY TYPES

Q 23 RELAY 1 and 2 TYPES [0000] | | | | |

Q 24 RELAY 3 and 4 TYPES [0000] | | | | |

Q 25 RELAY 5 and 6 TYPES [0000] | | | | |

Q 26 RELAY 7 and 8 TYPES [0000] | | | | |

Q 27 RELAY 9 and 10 TYPES	[0000]						
Q 28 TRIGGER 1 and 2 TYPES	[0102]						
Q 29 TRIGGER 3 and 4 TYPES	[0304]						

RELAY/TRIGGER TIME for MOMENTARY OUTPUTS

Q 30 RELAY/TRIG TIME	[0000]				

SUBMODE 2: ZONE PROGRAMMING AND REPORT CODES

Q 01 ZONE 1 (type/attributes)	[2000]						
Q 02 ZONE 2 (type/attributes)	[1000]						
Q 03 ZONE 3 (type/attributes)	[1000]						
Q 04 ZONE 4 (type/attributes)	[1000]						
Q 05 ZONE 5 (type/attributes) *							
Q 06 ZONE 6 (type/attributes) *							
Q 07 ZONE 7 (type/attributes)	[0000]						
Q 08 ZONE 8 (type/attributes)	[0000]						
Q 09 ZONE 9 (type/attributes)**	[0000]						
Q 10 ZONE 10 (type/attributes)**	[0000]						
Q 11 ZONE 11 (type/attributes)**	[0000]						
Q 12 ZONE 12 (type/attributes)**	[0000]						

* Default values for Questions 05 and 06 are 0000 for the OMNI400N and 1000 for the OMNI600N.

** Questions 09 through 12 are not used in the OMNI400N. These questions apply to the OMNI600N ONLY.

QUESTIONS 13–18: ZONE REPORT CODES

Q 13 ZONE 1/2 REPORT	[6142]						
Q 14 ZONE 3/4 REPORT	[3334]						
Q 15 ZONE 5/6 REPORT	[3536]						
Q 16 ZONE 7/8 REPORT	[3030]						
Q 17 ZONE 9/10 REPORT*	[3030]						
Q 18 ZONE 11/12 REPORT*	[3030]						

* Questions 17 and 18 are not used in the OMNI400N. These questions apply to the OMNI600N ONLY.

QUESTIONS 19–31: SYSTEM REPORT CODES

Q 19 DURESS/AC LOSS	[AA88]						
Q 20 KEYPAD ✶ & #/BAT LOSS	[6999]						
Q 21 OPEN/CLOSE	[AAAA]			X	X		
Q 22 KEYPAD 7 & 9/1 & 3	[AA00]						
Q 23 KEY TAMPER/CS TEST	[AAAA]						
Q 24 FALSE ALARM	[AAAA]						
Q 25 BELL SUPERVISION/ KEYPAD TAMPER	[AAAA]						
Q 26 BYPASS/RESTR/TROUBLE	[AAFF]						
Q 27 DOWNLOAD/WALK TEST	[AAAA]						
Q 28 EVENT LOG	[AAAA]						
Q 29 ALARM VER/TAMPER/TROUBLE	[AAAA]				X		
Q 30 ARM DISABLE/CLOCK SET	[AAAA]						
Q 31 UP-ABOUT/CLOCK FAIL	[AAAA]						

QUESTION 32: FIRST DOUBLED ZONE

Q 32 1st DBLD ZONE	[0000]			X	X

QUESTIONS 33–35: CROSSED ZONES

Q 33 CROSSED ZONES GROUP 1	[0000]				
Q 34 CROSSED ZONES GROUP 2	[0000]				
Q 35 CROSSED ZONES TIME	[0000]	X	X		

SUBMODE 4: DESCRIPTOR PROGRAMMING

QUESTIONS 01–12: ZONE DESCRIPTORS FOR ZONES 01–12

Enter up to 16 characters.

Q 01 ZN 1	
Q 02 ZN 2	
Q 03 ZN 3	
Q 04 ZN 4	
Q 05 ZN 5	
Q 06 ZN 6	
Q 07 ZN 7	
Q 08 ZN 8	
Q 09 ZN 9*	
Q 10 ZN 10*	
Q 11 ZN 11*	
Q 12 ZN 12*	

* Questions 09 through 12 are not used in the OMNI400N. These questions apply to the OMNI600N ONLY.

QUESTION 13: SYSTEM DESCRIPTOR

Enter up to 16 characters.

Q 13 SYSTEM DESCRIPTOR	

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