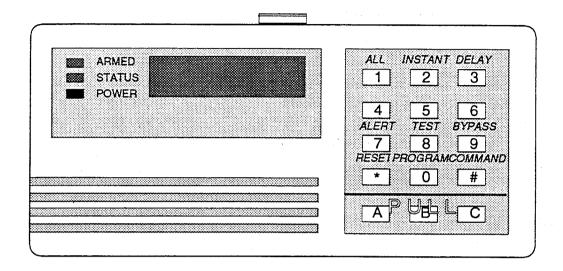
Reference Guide for DS7400Control/Communicator



Keypad Quick Reference Guide

Turning On (arming) your System

Turn on all protection PIN + COMMAND 1
Occupied, no entry allowed PIN + COMMAND 2
Occupied, entry allowed PIN + COMMAND 3
Turn on all protection, no entry allowed PIN + COMMAND 5

Custom Arming PIN + COMMAND 4 for _____

Force Arming
Enter arming command above followed by 9

Area Bypass PIN + COMMAND 9 followed by the Point number

Turning Off (disarming) your System Enter your PIN followed by COMMAND

Commands for other System Features

Alert Mode PIN + COMMAND 7 Area Test PIN + COMMAND 8 1 Read History PIN + COMMAND 8 9 **Battery Test** PIN + COMMAND 8 0 Communicator Test PIN + COMMAND 8 2 Fire Reset PIN + COMMAND 8 0 Remote Program Dial out PIN + COMMAND 8 3 Remote Program Answer PIN + COMMAND 8 6 Sounder Test (alarm sounding devices) PIN + COMMAND 8 5 Trouble Display PIN + COMMAND 8 7 Trouble Display Reset PIN + COMMAND 8 7 *

Access Control

Enter your Access Control PIN followed by COMMAND

Detection Systems, Inc., Fairport, New York 14450

Technical Service: (800) DSI-7454 Sales: (800) 289-0096 and (716) 223-4060

Fax: (716) 223-9180

DS7400 Installation Installations -- Table of Contents

Pacifications 2 Restore when Sounders Silence 9	Cover		General Control Programming (continued)	
Specifications	Table of Contents	2	Restore when Sounders Silence	
Allow Swinger Shunts 9				
System Overview 7 Common Area 9 Partition Control Programming 9 Partition Control Programming 9 Poscription 7 Common Area 9 Point Type 7 Common Area 9 Point Type 7 Keypad Assignment Programming 9 Point Type Programming 7 Keypad Assignment Programming 9 Point Type Programming 7 Single Point Input 10 Invisible Alarms 7 Silent Alarms 7 Silent Alarms 7 Silent Alarms 7 Silent Alarms 8 Bypassing Allowed 7 Emergency Key Programming 10 Alarm on Short 7 Fire Key 10 Alarm on Open 7 Special Emergency Key Programming 10 Trouble on Open 7 Perimeter Instant 7 Key 4 Arming Programming 10 Perimeter Instant 7 Key 4 Arming Programming 10 Interior Entry/Exit Delay #1 7 Copen/Close Report Control Programming 10 Interior Home/Away 7 Send Trouble at Close for Bypassed Points 10 Pay Monitor 7 Phone Number 6 Send Trouble at Close for Bypassed Points 10 Pay Monitor 7 Alternate between both Phone Numbers 10 Interior Instant 8 Fire Point 18 Dial Plone Numbers 10 Fire Point With Verification 8 Dial Pluse on all Plone Numbers 10 Point Alarm (Latching) 8 Answering Programming 10 ON during Entry Pre-Alert 8 System Status (ready to arm) 8 Point Alarm (Latching) 8 Phone Answering Programming 11 Point Alarm Delayed by 10 sec. 8 System Status (ready to arm) 8 Point Alarm Delayed by 10 sec. 9 Canadian Dept. of Communications 12 General Control Programming 11 Level 5 Arming 9 Canadian Dept. of Communications 12 Level 1 Arming 9 Canadian Dept. of Communications 12 Level 2 Arming 9 Closing Ring-Back 16 Intring 10 Turning OPF (disarming) the System 13 Ituning OPF (disarming) the System 14 Ituning OPF (disarming) the System 15 Ituning OPF (d	•			
System Overview 7 Common Area 9 Pantition Central Programming 9 Point Type 7 Keypad Assignment Programming 9 Keypad Assignment Programming 9 Point Type 7 Keypad Assignment Programming 9 Master Keypad Programming 9 Point Type Programming 7 Point Assignment Programming 10 Single Point Input Programming 10 Single Point Input Programming 10 Single Point Input Programming 10 Programming 11 Programm	-			
Description	·			
Point Type	-			
Glossary Point Type Programming Point Type Programming Point Alarms Silent Alarms Silent Alarms Silent Alarms Sysassing Allowed Alarm on Short Alarm on Open Trouble on Open Perimeter Instant P	•	7		
Point Type Programming	Point Type	7		
Point Type Programming	Glossary			
Rivisible Alarms Silent Alarms Bypassing Allowed Alarm on Short Alarm on Open Trouble on Open Trouble on Open Perimeter Instant Tentry/Exit Delay #1 Tentry/Exit Delay #2 Interior Entry/Exit Follower Interior Instant To By Monitor Fire Point With Verification Fire Point With Verification Fire Point With Verification Supervisory Output Programming Point Alarm (Latching) ON during Entry Pre-Alert ON when System Status (ready to arm) Point Alarm Poi	• • • •			
Sileth Adarm on Short 7 Fire Key 10 Alarm on Short 7 Fire Key 10 Alarm on Open 7 Special Emergency Key 10 Perimeter Instant 7 Key 4 Arming Programming 10 Entry/Exit Delay #1 7 Key 4 Arming Programming 10 Interior Entry/Exit Follower 7 Open and Close Reports 10 Interior Entry/Exit Follower 7 Open and Close Reports 10 Interior Instant 7 Alternate between both Phone Numbers 10 Interior Instant 7 Alternate between both Phone Numbers 10 Interior Instant 8 Fire Point With Verification 8 Uservisory 8 Phone Answering Programming 10 Output Programming 8 Answering Programming 10 Output Programming 8 Point Alarm (Latching) 9 Catal Relay Module (DS7488) Programming 11 Point Alarm (Latching) 8 Point Alarm (Latching) 9 Canadian Dept. of Communications 12 General Control Programming 11 FCC Compliance Notice 111 FCC Compliance Notice 111 FCC Compliance Notice 112 FCC Phone Connection Notice to Users 111 FCC Arming 9 FIF Requirements 12 FFI Requirements 12 FFI Requirements 12 Level 3 Arming 9 Turning OFF (disarming) the System 13 Level 6 Arming 9 Turning OFF (disarming) the System 13 Turning OFF (disarming) the System 14 Turnin				
Alarm on Short Alarm on Open Alarm on Open Alarm on Open Trouble on Open Perimeter Instant 24 Hour Entry/Exit Delay #1 Entry/Exit Delay #2 7 Entry/Exit Delay #2 7 Centry/Exit Delay #2 7 Centry/Exit Delay #2 7 Centry/Exit Delay #2 7 Centry/Exit Delay #2 7 Open/Close Report Control Programming 10 Open and Close Reports 10 Open and Close Report Control Programming 10 Open and Close Reports 10 Open and Close Reports 10 Open and Close Reports 10 Open and Close Report Control Programming 10 Open and Close Reports 10 Open and Close Report Control Programming 10 Open and Close Reports 10 Open and Close Reports 10 Open and Close Reports 10 Open and Close Report Control Programming 10 Open Answering Programm				
Alarm on Open 7 Special Emergency Key 10 Trouble on Open 7 Panic Key 10 Perimeter Instant 7 Key 4 Arming Programming 10 24 Hour 7 Key 4 Arming Programming 10 Entry/Exit Delay #1 7 Open/Close Report Control Programming 10 Interior Entry/Exit Follower 7 Open and Close Reports 10 Interior Instant 7 Send Trouble at Close for Bypassed Points 10 Interior Instant 7 Send Trouble at Close for Bypassed Points 10 Interior Instant 7 Alternate between both Phone Numbers 10 Day Monitor 7 Phone Number General Control Programming 10 Key Switch Input 8 Enable Remote Programmer Callback 10 Fire Point with Verification 8 Dial Tone on all Phone Numbers 10 Water Flow Point 8 Dial Tone on all Phone Numbers 10 Output Programming 8 Answering Programming 10 ON when System is Armed 8 Re				
Trouble on Open Perimeter Instant 74 Hour Perimeter Instant 75 Key 4 Arming Programming Point Alarm (Latching) ON when System is Armed ON when System Status (ready to arm) Point Alarm Delayed by 10 sec. Key Boyler Remarks Arming Point Alarm Delayed by 10 sec. Key Boyler Remarks Arming Perimeter Instant Perint Point Programming Poore Arming Point Alarm (Programming Programming Point Alarm (Programming Programming Programmi				
Perimeter Instant				
24 Hour Entry/Exit Delay #1 7			•	
Entry/Exit Delay #1 Entry/Exit Delay #2 7 Open/Close Report Control Programming 10 Interior Entry/Exit Follower Interior Home/Away 7 Send Trouble at Close for Bypassed Points 10 Interior Instant 7 Alternate between both Phone Numbers 10 Day Monitor 7 Alternate between both Phone Numbers 10 Day Monitor 7 Alternate between both Phone Numbers 10 Enable Remote Programmer Callback 10 Fire Point with Verification 8 Dial Phone Numbers 10 Water Flow Point 8 Dial Tone on all Phone Numbers 10 Output Programming 8 Phone Answering Programming 10 Answering Machine Bypass 10 Output Programming 10 Output Programming 8 Phone Answering Programming 10 On during Entry Pre-Alert 8 Force Arming Programming 11 ON for 10 Sec. after #80 is entered 8 Report Programming 11 ON when System is Armed 8 Report Programming 11 System Status (ready to arm) 8 Point Alarm Delayed by 10 sec. 8 Point Alarm Delayed by 10 sec. 8 Cotal Relay Module (DS7488) Programming 11 Point Alarm Delayed by 10 sec. 8 Cotal Relay Module (DS7488) Programming 11 General Control Programming 9 Canadian Dept. of Communications 12 Level 3 Arming 9 Canadian Dept. of Communications 12 Level 4 Arming 9 Canadian Dept. of Communications 12 Level 4 Arming 9 Turning OFF (disarming) the System 13 Closing Ring-Back 9 Turning OFF (disarming) the System	24 Hour			
Interior Entry/Exit Follower Interior Home/Away Interior Home/Away Interior Instant Day Monitor Key Switch Input Fire Point Fire Point Supervisory Output Programming ON during Entry Pre-Alert ON for 10 Sec. after #80 is entered ON when System is Armed Ground Start System Status (ready to arm) Point Alarm Commercial Mode Commercial Mode Level 1 Arming Level 2 Arming Level 4 Arming Level 5 Arming Level 5 Arming Level 5 Arming Level 6 Arming Closing Ring-Back Interior Home/Away Interior Interior Home/Amay Interior Home Numbers Interior Home/Amay Interior Home/Amay Interior Home/Amay Interior Home/Amay Interior Home/Amay Interior Home Numbers Interior Home/Amay Interior Home Numbers Interial Enable Renote Programming Interior Home/Amay Interior Home/		7	•	
Interior Home/Away Interior Instant Day Monitor Key Switch Input Fire Point Fire Point with Verification Water Flow Point Supervisory Olduput Programming ON during Entry Pre-Alert ON when System is Armed Ground Start System Status (ready to arm) Point Alarm Delayed by 10 sec. Keypad Sounder Output Access Output General Control Programming Commercial Mode Level 1 Arming Level 2 Arming Level 3 Arming Level 4 Arming Level 5 Arming Level 5 Arming Level 6 Arming Closing Ring-Back Phone Number General Control Programming 10 Alternate between both Phone Numbers 10 Phone Answering Programming 10 Answering Programming 10 Answering Programming 11 Force Arming Programming 12 Force Arming Programming 13 Force Arming Programming 14 Force Arming Programming 15 Force Arming Progr				
Interior Instant Day Monitor Rey Switch Input Fire Point Fire Point with Verification Water Flow Point Supervisory Output Programming Point Alarm (Latching) ON during Entry Pre-Alert ON when System is Armed Ground Start System Status (ready to arm) Point Alarm Delayed by 10 sec. Keypad Sounder Output Access Output General Control Programming Commercial Mode Level 1 Arming Level 5 Arming Level 5 Arming Level 5 Arming Level 5 Arming Level 6 Arming Closing Ring-Back Alternate between both Phone Numbers 10 Alternate between both Phone Numbers 10 Phone Number General Control Programming 10 Day Monitor Fire Point Valer (Phone Numbers (10 Dial Tone on all Phone Numbers 10 Dial Tone on all Phone Numbers 11 Dial Tone on all Phone Numbers 10 Dial Tone on all Phone Numbers 11 Dial Tone on all Phone Numbers 10 Dial Tone on all Phone Numbers 10 Dial Tone on all Phone Numbers 11 Dial Tone on all Phone Numbers 10 Dial Tone				
Day Monitor Key Switch Input Fire Point Fire Point with Verification Water Flow Point Supervisory Cutput Programming Point Alarm (Latching) ON during Entry Pre-Alert ON for 10 Sec. after #80 is entered Ground Start System Status (ready to arm) Point Alarm Delayed by 10 sec. Keypad Sounder Output Access Output General Control Programming Pome Answering Programming Point Alarm Delayed by 10 sec. Level 1 Arming Level 2 Arming Level 3 Arming Level 5 Arming Level 5 Arming Closing Ring-Back Phone Number General Control Programming 10 Enable Remote Programmer Callback 10 Dial Pulse on all Phone Numbers 10 Dial Pulse on all Phone Numbers 10 Dial Pulse on all Phone Numbers 10 Answering Programming 10 Answering Programming 11 Phone Answering Programming 11 Force Arming Programming 11 Report Programming 11 Reports 11 Re				
Key Switch Input8Enable Remote Programmer Callback10Fire Point8Dial Pulse on all Phone Numbers10Fire Point with Verification8Dial Pulse on all Phone Numbers10Water Flow Point8Dial Tone on all Phone Numbers10Supervisory8Phone Answering Programming10Output Programming8Answering Programming10Point Alarm (Latching)8Force Arming Programming11ON during Entry Pre-Alert8Force Arming Programming11ON vor 10 Sec. after #80 is entered8Force Arming11ON when System is Armed8Report Programming11Ground Start8Report Programming11System Status (ready to arm)8Report Programming11Point Alarm9Octal Relay Module (DS7488) Programming11Report Sutus (ready to arm)8Octal Relay Module (DS7488) Programming11Report Sutus (ready to arm)8Octal Relay Module (DS7488) Programming11Report Programming9Octal Relay Module (DS7488) Programming11Canadian Dept. of Compliance Notice11General Control Programming9Canadian Dept. of Communications12Level 2 Arming9Canadian Dept. of Communications12Level 2 Arming9Terminal requirements12Level 4 Arming9Operating the DS740013Level 6 Arming9Turning OFF (disarming) the S				
Fire Point Fire Point with Verification Fore Arming Programming Answering Programming Force Arming Programming Cotal Relay Module (DS7488) Programming Force Arming Programming Force Arming Programming Cotal Relay Module (DS7488) Programming Force Arming Programming Force Arming Programming Cotal Relay Module (DS7488) Programming Force Arming Programming Cotal Relay Module (DS7488) Programming Force Arming Programming Force Arming Programming Cotal Relay Module (DS7488) Programming Force Arming Programming Force Arming Programming Cotal Relay Module (DS7488) Programming Force Arming Programming Cotal Relay Module (DS7488) Programming Force Arming Programming Force Arming Programming Cotal Relay Module (DS7488) Programming Force Arming Programming Force Arming Programming Cotal Relay Module (DS7488) Programming Force Arming Force Arming Programming Force Arming Programming Cotal Relay Module	· · · · · · · · · · · · · · · · · · ·			
Fire Point with Verification Water Flow Point Supervisory Output Programming Point Alarm (Latching) ON during Entry Pre-Alert ON for 10 Sec. after #80 is entered ON when System is Armed Ground Start System Status (ready to arm) Point Alarm Delayed by 10 sec. Keypad Sounder Output Access Output General Control Programming Commercial Mode Level 1 Arming Level 2 Arming Level 3 Arming Level 5 Arming Level 6 Arming Closing Ring-Back Dial Tone on all Phone Numbers Dhone Answering Programming Dhone Answering Pro				
Water Flow Point Supervisory Output Programming Point Alarm (Latching) Point Alarm System is Armed Point Alarm Delayed by 10 sec. Keypad Sounder Output Access Output General Control Programming Commercial Mode Level 1 Arming Level 2 Arming Level 3 Arming Level 5 Arming Closing Ring-Back Phone Answering Programming Programming Proce Arming Pr			·	
Output Programming Point Alarm (Latching) ON during Entry Pre-Alert ON for 10 Sec. after #80 is entered ON when System is Armed Ground Start System Status (ready to arm) Point Alarm Delayed by 10 sec. Keypad Sounder Output Access Output General Control Programming Commercial Mode Level 1 Arming Level 2 Arming Level 5 Arming Level 6 Arming Closing Ring-Back Phone Answering Programming Answering Machine Bypass 10 Answering Machine Bypass 11 Answering Machine Bypass 10 Answering Machine Bypass 11 Answering Machine Bypass 11 Answering Machine Bypass 11 Answering Machine Bypass 11 Force Arming Programming 11 Force Arming Programming 11 Force Arming Programming 11 Reports 11 Reports 11 Accel Arming Programming 11 Cotal Relay Module (DS7488) Programming 11 Cotal Relay Module (DS7488) Programming 11 Cotal Relay Module (DS7488) Programming 11 FCC Compliance Notice 11 FCC Phone Connection Notice to Users 11 General Control Programming 9 Canadian Dept. of Communications 12 Canadian Dept. of Communications 12 Terminal requirements 12 Terminal Programming 13 Turning ON (arming) the System 13 Turning OFF (disarming) the System 13 Turning OFF (disarming) the System 13	Water Flow Point	8		10
Output Programming Point Alarm (Latching) ON during Entry Pre-Alert ON for 10 Sec. after #80 is entered ON when System is Armed Ground Start System Status (ready to arm) Point Alarm Delayed by 10 sec. Keypad Sounder Output Access Output General Control Programming Commercial Mode Level 1 Arming Level 2 Arming Level 3 Arming Level 5 Arming Level 6 Arming Closing Ring-Back ON when System is Armed Report Programming Force Arming Programming Reports Force Arming Programming 11 Force Arming Programming 11 Force Arming Programming 11 Force Arming Programming 11 Reports Force Arming Programming Programmin	Supervisory	8		
Point Alarm (Latching) ON during Entry Pre-Alert ON for 10 Sec. after #80 is entered ON when System is Armed Ground Start System Status (ready to arm) Point Alarm Delayed by 10 sec. Keypad Sounder Output Access Output General Control Programming Commercial Mode Level 1 Arming Level 2 Arming Level 3 Arming Level 5 Arming Level 6 Arming Closing Ring-Back Cissing Machine Dypass Force Arming Programming Force Arming Programming 11 Feports 11 Feports 11 Force Arming Programming 11 Feports 11 Feports 11 Force Arming Programming 11 Force Arming Programming 11 Feports 11 Feports 11 Feports 11 Force Arming Programming 11 Feports 11 Fepor	Output Programming	8		
ON during Entry Pre-Alert ON for 10 Sec. after #80 is entered ON when System is Armed Ground Start System Status (ready to arm) Point Alarm Point Alarm Delayed by 10 sec. Keypad Sounder Output Access Output General Control Programming Commercial Mode Level 1 Arming Level 2 Arming Level 3 Arming Level 5 Arming Level 6 Arming Closing Ring-Back Closing Ring-Back Force Arming Programming Reports Force Arming Programming Octal Relay Module Force Arming Point Alarm Programming Neports Force Arming Programming Force Arming Programming Octal Relay Module Force Arming Programming Neports Force Arming Force Arming Programming Force Arming Force Arming Programming Force Arming Programming Force Arming Force			, , , , , , , , , , , , , , , , , , ,	10
ON when System is Armed Ground Start System Status (ready to arm) Point Alarm Point Alarm Delayed by 10 sec. Keypad Sounder Output Access Output General Control Programming Commercial Mode Level 1 Arming Level 2 Arming Level 3 Arming Level 4 Arming Level 5 Arming Level 6 Arming Closing Ring-Back Report Programming Reports Reports 11 Reports Reports Reports 11 Reports Reports 11 Reports Programming 11 Reports Reports 11 Reports Reports 11 Reports Reports 11 Reports 11 Reports 12 Cotal Relay Module (DS7488) Programming 11 FCC Compliance Notice 11 FCC Phone Connection Notice to Users 11 Canadian Dept. of Communications 12 General Installation Requirements 12 RFI Requirements 12 RFI Requirements 12 Turning ON (arming) the System 13 Turning OFF (disarming) the System 13 Turning OFF (disarming) the System 13 Turning OFF (disarming) the System		. 8		
Ground Start System Status (ready to arm) Point Alarm Point Alarm Delayed by 10 sec. Keypad Sounder Output Access Output General Control Programming Commercial Mode Level 1 Arming Level 2 Arming Level 3 Arming Level 4 Arming Level 5 Arming Level 6 Arming Closing Ring-Back Reports Reports Reports Reports 11 Reports Reports 11 Reports Reports Reports 11 Reports Service All Status (ready to arm) 11 Access Output Reports Reports Reports Reports Reports Reports Reports Service All Status (ready to arm) 11 Access Output			Force Arming	11
System Status (ready to arm) Point Alarm Point Alarm Point Alarm Delayed by 10 sec. Keypad Sounder Output Access Output General Control Programming Commercial Mode Level 1 Arming Level 2 Arming Level 3 Arming Level 4 Arming Level 5 Arming Level 6 Arming Clossing Ring-Back System Status (ready to arm) 8 Octal Relay Module (DS7488) Programming 11 Cotal Relay Module Programming 12 FCC Compliance Notice 11 FCC Phone Connection Notice to Users 12 FCC Phone Connection Notice to Users 11 FCC Phone Connection Notice to Users 12 FCR Phone Connection Notice to Users 11 FCC Phone Connection Notice to Users 12 FRI Requirements 12 FRI Requirements 12 FRI Requirements 12 FRI Requirements 13 FRI Requirements 14 FRI Requirements 15 FRI Requirements 16 FRI Requirements 17 FRI Requirements 18 FRI Requirements 19 FRI Requirements 10 FRI Requirements 10 FRI Requirements 11 FRI Requirements 12 FRI Requirements 13 FRI Requirements 14 FRI Requirements 15 FRI Requirements 16 FRI Requirements 17 FRI Requirements 18 FRI Requirements 19 FRI Requirements 10 FRI Requirements 10 FRI Requirements 11 FRI Requirements 12 FRI Requirements 13 FRI Requirements 14 FRI Requirements 15 FRI Requirements 16 FRI Requirements 17 FRI Requirements 18 FRI Requirements 19 FRI Requirements 10 FRI Requirements 10 FRI Requirements 10 FRI Requirements 11 FRI Requirements 12 FRI Requirements 13 FRI Requirements 14 FRI Requirements 15 FRI Requirements 16 FRI Requirements 17 FRI Requirements 18 FRI Requirements 19 FRI Requirements 10 FRI			Report Programming	11
Point Alarm Point Alarm Delayed by 10 sec. Keypad Sounder Output Access Output General Control Programming Commercial Mode Level 1 Arming Level 2 Arming Level 3 Arming Level 5 Arming Level 6 Arming Closing Ring-Back Point Alarm Delayed by 10 sec. 8 Octal Relay Module (DS7488) Programming Octal Relay Module (DS7488) Programming 11 Octal Relay Module (DS7488) Programming 11 Cotal Relay Module 11 FCC Compliance Notice 11 Canadian Dept. of Communications 12 Canadian Dept. of Communications 12 Ferminal requirements 12 FFI Requirements 12 FFI Requirements 12 Coperating the DS7400 13 Turning ON (arming) the System 13 Turning OFF (disarming) the System 13 Turning OFF (disarming) the System			Reports	11
Point Alarm Delayed by 10 sec. Keypad Sounder Output Access Output General Control Programming Commercial Mode Level 1 Arming Level 2 Arming Level 3 Arming Level 4 Arming Level 5 Arming Level 6 Arming Closing Ring-Back Poctal Relay Module FCC Compliance Notice FCC Phone Connection Notice to Users FCC Phone Connection Notice Noti	· · · · · · · · · · · · · · · · · · ·		Octal Relay Module (DS7488) Programming	11
Keypad Sounder Output8FCC Compliance Notice11Access Output8FCC Phone Connection Notice to Users11General Control Programming9Canadian Dept. of Communications12Commercial Mode9Canadian Dept. of Communications12Level 1 Arming9General Installation Requirements12Level 2 Arming9Terminal requirements12Level 3 Arming9RFI Requirements12Level 4 Arming9Operating the DS740013Level 5 Arming9Turning ON (arming) the System13Level 6 Arming9Turning OFF (disarming) the System13Closing Ring-Back9Turning OFF (disarming) the System13				
Access Output General Control Programming Commercial Mode Level 1 Arming Level 2 Arming Level 3 Arming Level 4 Arming Level 5 Arming Level 6 Arming Closing Ring-Back FCC Phone Connection Notice to Users FCC Phone Connection Notice to Users 11 Canadian Dept. of Communications 12 General Installation Requirements 12 Terminal requirements 12 RFI Requirements 12 Operating the DS7400 13 Turning ON (arming) the System 13 Turning OFF (disarming) the System 13 Turning OFF (disarming) the System 13			FCC Compliance Notice	11
General Control Programming Commercial Mode Level 1 Arming Level 2 Arming Level 3 Arming Level 4 Arming Level 5 Arming Level 6 Arming Closing Ring-Back Omega and in Dept. of Communications General Installation Requirements 12 Terminal requirements 12 RFI Requirements 12 Operating the DS7400 Turning ON (arming) the System 13 Turning OFF (disarming) the System 13 Turning OFF (disarming) the System 14 Turning OFF (disarming) the System 15 Turning OFF (disarming) the System 16 Turning OFF (disarming) the System 17 Turning OFF (disarming) the System 18 Turning OFF (disarming) the System		8	•	
Level 1 Arming 9 General Installation Requirements 12 Level 2 Arming 9 Terminal requirements 12 Level 3 Arming 9 RFI Requirements 12 Level 4 Arming 9 Operating the DS7400 13 Level 5 Arming 9 Turning ON (arming) the System 13 Level 6 Arming 9 Turning OFF (disarming) the System 13 Closing Ring-Back 9 Turning OFF (disarming) the System	General Control Programming	9		
Level 2 Arming 9 Terminal requirements 12 Level 3 Arming 9 RFI Requirements 12 Level 4 Arming 9 Operating the DS7400 13 Level 5 Arming 9 Turning ON (arming) the System 13 Level 6 Arming 9 Turning OFF (disarming) the System 13 Closing Ring-Back 9 Turning OFF (disarming) the System				
Level 3 Arming Level 4 Arming 9 Closing Ring-Back 9 RFI Requirements 9 Operating the DS7400 13 Turning ON (arming) the System 13 Turning OFF (disarming) the System 13 Turning OFF (disarming) the System 13 Turning OFF (disarming) the System 13	——————————————————————————————————————		· · · · · · · · · · · · · · · · · · ·	
Level 4 Arming 9 Operating the DS7400 13 Level 5 Arming 9 Turning ON (arming) the System 13 Level 6 Arming 9 Turning OFF (disarming) the System 13 Closing Ring-Back 9 Turning OFF (disarming) the System 13	——————————————————————————————————————			
Level 5 Arming 9 Turning ON (arming) the System 13 Level 6 Arming 9 Turning OFF (disarming) the System 13 Closing Ring-Back 9 Turning OFF (disarming) the System			·	
Level 6 Arming 9 Turning OFF (disarming) the System 13 Closing Ring-Back 9 Turning OFF (disarming) the System				
Closing Ring-Back 9 Turning OFF (disarming) the System				
Oliver on Order Fall for Olivet Polist				10
	Siren on Comm. Fail for Silent Point	9		14

DS7400 Installation Installations -- Table of Contents

Operating the DS7400 (continued)	•	DS7400 Installation Guide for U.L. Certificated	
Emergency Keypad Alarms	14	Installations	51
Keypad Displays	15	Programming Addresses	55
Error Displays	15	gg	•
Access Control	16		
Chime Mode	16		
Area Bypass	17		
Force Arming	17		
Fire Reset/Fire Trouble	18		
Fire Safety	19		
Personal Identification Numbers	20		
Changing the Date	21		
Changing the Expiration Date (for Temp. Codes)	21	·	
Changing the Time	21		
Testing	22		•
	00		
The Master Keypad	23		
Master Keypad Displays	23		
Arming and Disarming with the Master Keypad	23		
Single Partition Mode	23		
Programming the DS7400	24		
How to Program the DS7400	24		
Understanding the Programming Charts	25		
Point Type Programming	26		
Output Programming	27		
General Control programming	27		
Partition Control programming	28		
Keypad Assignment Programming	28		
Point Assignment Programming	29		
Alpha Description Programming	30		
Alpha Word Programming	31		
Custom Word Programming	32		
Emergency Key Programming	33		
Panic Key Programming	34		
Key 4 Arming Programming			
	34		
Open/Close Report Control Programming	35		
Report Control Programming	35		
Phone Number General Control Programming	36		
Phone Answering Programming	36		
Force Arming Programming	37	•	
Timer Programming	37		
Report Programming	38		
Phone Number Format Programming	43		
Account Code programming	44		
Programmer's Code Programming	45		
Master Code Programming	46		
Octal Relay Module Output Programming	47		
Call-Out Timer Programming	48		
Test Report and Remote Programmer Call-Out			
Programming	49		
Phone Number 1 Programming	50		
Phone Number 2 Programming	50		
Phone Number 3 Programming	50		

DS7400 Specifications

Housing

The standard enclosure is manufactured from 20 Ga., cold-rolled steel, and measures 12.5 in. Wide, by 14.5 in. High, by 3 in. Deep. A keyed lock is included, and this enclosure has provision for an optional tamper switch for monitoring the door.

Temperature

• +32° to +120°F (0° to +49°C)

Power

Input power

18 VAC, 50 VA, 60 Hz.

Auxiliary regulated power

12 VDC, 1.5 A.

UL Listed Auxiliary power

12 VDC, 1.5 A.

UL Listed Alarm Power Output

1.0A.

 Auxiliary power voltage range Optional Standby battery

7.0 to 34.0 VDC

12 V, 7.0 AH

Control panel standby current

125 mA

7440 keypad standby current

4 5/8" H, 4 7/8" W, 1" D

75 mA.

NOTE: Total current for all auxiliary devices, including keypads and smoke detectors, is 1.5A standby and 2.5 Amps in alarm (2.5 Amps UL burglar and 2.5A for UL House-

hold Fire).

Outputs

Alarm Output

Form A, 1.0 Amp contact connected

to auxiliary power. Can be programmed for steady or pulsed

output.

• Programmable Output 1

Solid state current sink (40 mA Max.). Can be used for alarm,

arming state, or access control. This output is generally

programmable.

Programmable Output 2

Solid state voltage source(500 mA

Max.). Can be used for alarm, arming state, or access control.

This output is generally

programmable.

Kevpads

· Number of keypads

8 Keypads

Maximum wire length each

1000 feet

· Maximum wire length total

6000 feet

in system Wire type

4 conductor #22 AWG

"Telephone quad"

NOTE: no more than 3 keypads on any 1000 foot run

Communicator

Will report to two phone numbers with full single, double and back-up reporting. Communicates in SIA, 3/1, 3/1 Ext., 4/1, 4/2, BFSK, and Contact ID.

FCC Registration Number is ESVUSA-75333-AL-E The ringer equivalence is 0.1B

Lightning Protection

MOVs and spark gaps provide protection from lightning surges and static discharges.

Burglar/Fire Zone Inputs

Number of circuits

8 Circuits on board

· End of line resistor

2.21k ohms

Fire Signal Initiating Circuit (2 wire mode)

Fire circuit will work with 2 or 4-wire detectors and has optional alarm verification.

 Number of circuits 8 Circuits Type of circuit Class B, latching

 End of line resistor 2.21k ohms 5 mA.

Supervisory current

 Minimum current for alarm Maximum short circuit current

12 mA. 22 mA. 60 ohms

Maximum circuit resistance

8.5 to 14.1VDC

 Circuit voltage range Maximum impedance for alarm

1000 ohms

Maximum detectors per zone

20 detectors (2 wire)

Total detector standby current

2.5 mA.

DS7400 Enclosure Installation

The DS7400 control/communicator and the enclosure are shipped in separate boxes. Hardware for mounting the enclosure to a wall, and the control to the enclosure is located in a separate hardware pack.

1.0 Install the Enclosure

- Use the enclosure as a template and mark the top mounting holes on the mounting surface.
- Pre-start the mounting screws for these two holes. Slide the
 enclosure onto these mounting screws so that the screws
 move up into the thinner section of the holes. Tighten the
 screws.
- Screw in the remaining two screws in either set of bottom mounting holes.
- Knock out the desired wire entrances on the enclosure.

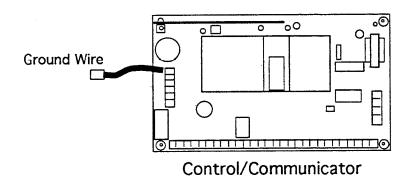
2.0 Install the Control/Communicator

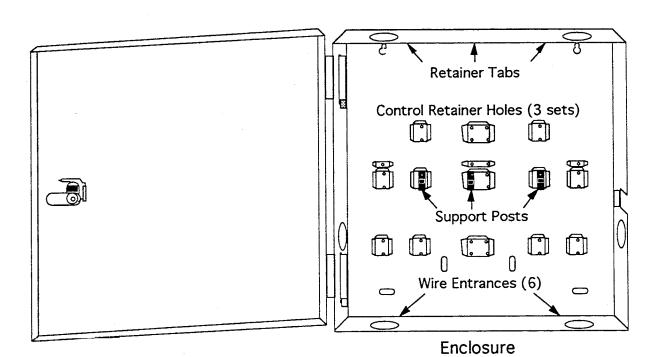
CAUTION: The control is static sensitive. Make sure you touch ground before handling the control. This will discharge any static electricity in your body.

Example: Run the ground wire to the enclosure before handling the control. Then keep holding the ground wire while installing the control.

- Insert the three support posts into the control retainer holes as shown in the diagram.
- Slide the top of the control into the retainer tabs (the slots under the top frame).
- Once in the retainer tabs, the control will rest on the three support posts.
- Secure the bottom of the enclosure by screwing the bottom three holes through the support posts and through to the control retainer holes.

CAUTION: Once the control is installed, be sure to connect its ground wire to the top hinge of the enclosure (the unpainted tab).





DS7400 Control Terminal Wiring

WARNING: <u>Before</u> servicing this equipment, remove all power including the transformer and battery and also remove the phone line connection.

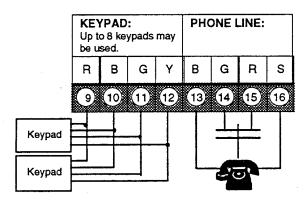
CAUTION: Incorrect connections may result in damage to the unit

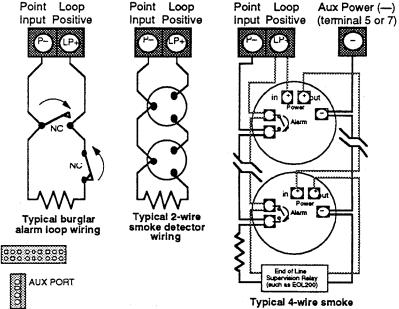
A/CPower Indication LED

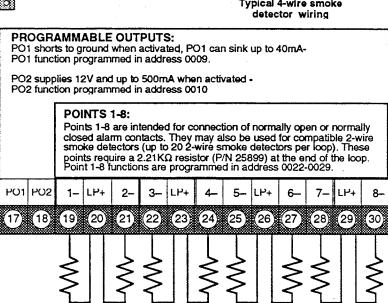
8	~~~	1 1	EARTH GROUND:
2000		Ξ	Must be connected to a good earth ground such as a cold water pipe and also connected
8	2	<u> </u>	to the cabinet cover, using the supplied wire
8		LĒ	jumper.
8			A/C INPUT:
200	3,	Α	Use a listed Class 2,18VAC 50VA transformer such as a Basler Electric BE116350CAA.
300000	4)	С	Transformer must be dedicated to the DS7400 and connected to an un-switched output.
80000000	5)	-	ALARM OUTPUT: Provides 12 VDC, up to 2A for powering bells,
888888888	6	Α	siren drivers, etc. Function programmed in address 0008
	7)	-	AUXILIARY POWER: Provides 12 VDC, up to 1.5A for powering
	8)	+	detectors.

OPTION BUS:
Used for options such as DS7420 Dual*
Phone Line Monitor, DS7488 Octal Relay*
Module, 3100-0200, etc..

* Not UL Listed*







System Overview

- Description: The DS7400 Control/Communicator is a fully integrated hardwire/multiplex security/residential fire alarm system. It can support up to 64 input points, 60 individual users, and multiple output options. It can be partitioned into as many as four separate systems, thus allowing individual control and reports for each partition. Up to 8 keypads may be used to provide user interface with the system, as well as programming access for the installer.
- Point: A Point is an input to the DS7400
 Control/Communicator. There are 8 hardwired points on the main circuit board. Additional points may be added by using the DS7433 (8 point expansion module), or by adding the DS7430 (multiplex loop module).
- Point Type: A Point Type is the description of how a
 particular point will function. Up to 8 different point
 types are allowed per system. These specific
 functions are programmed into each point; each
 point must be programmed as a specific point type.
 Any number and combination of points may be
 programmed as particular point types.

Glossary

Point Type Programming

- Invisible Alarms: This is a point programmed not to have an alarm output or an alarm display at the keypad when activated. There will be an alarm signal sent, but the keypad will display "Not Ready" while this point is violated. Invisible Alarm points are recommended for holdup alarms (e.g. panic switches and money clips).
- Silent Alarms: This is a point programmed to activate the visual display at the keypad, but **not** to activate audible signals.
- Bypassing Allowed: This is a point programmed that is capable of being bypassed (shunted) using the keypad bypass command or the force-arm sequence.
- Alarm on Short: This is a point programmed to activate an alarm when its loop is shorted.
- Alarm on Open: This is a point programmed to activate an alarm when its loop is opened.

- Trouble on Open: This is a point programmed to activate a trouble when its loop is opened and the system is disarmed. If the system is armed, this point will activate an alarm.
- Perimeter Instant: This is a point programmed to activate an alarm even during the entry/exit delay period.
- 24 Hour: This is a point programmed to activate when its loop is faulted, even if the system is disarmed.
- Entry/Exit Delay #1: This is a point programmed to be ignored during the entry delay period. If it is violated while the system is armed, it will activate an entry delay for the amount of time programmed for entry/exit delay time #1 (address 0638). The keypad pre-alert sounders will activate and the system may be disarmed during this entry period. If the system is not disarmed during the entry period, this point will activate an alarm.
- Entry/Exit Delay #2: This is a point programmed that behaves identical to the Entry/Exit Delay #1 point type except that it uses entry/exit delay time #2 (address 0639).

Note: If both entry/exit delays have been activated, the control will use the shorter entry/exit delay.

- Interior Entry/Exit Follower: This is a point programmed to be ignored during the exit delay and then become an interior instant point. If this point is violated while the system is armed and no entry/exit points have been violated, it will activate an alarm. If this point is violated after an entry/exit delay point is violated, it will follow the entry delay time for that point. This point is bypassed by #2 or #3 arming.
- Interior Home/Away: This is a point programmed to become an Instant point if the system is armed and an entry/exit delay point is violated during the exit delay time. If the system is armed and an entry/exit delay point is not violated, this point will be bypassed. This point is bypassed by #2 or #3 arming.
- Interior Instant: This is a point programmed to activate an alarm even during the entry/exit delay periods. This point is bypassed by #2 or #3 arming.
- Day Monitor: This is a point programmed to be an Instant point when the system is armed. When the system is disarmed, any violation of this point will activate the keypad sounders which will sound continuously until a PIN # is entered. The alarm outputs for this point will not activate and there will be no report for this point when the system is disarmed.

- Key Switch Input: This is a point programmed to allow the system to be armed and disarmed using a normally open momentary key switch. Outputs for keypad LEDs and sounders are available using the programmable outputs, Octal relay outputs, or input/output points.
- Fire Point: This is a point programmed to activate if the system is armed or disarmed. It can be silenced by entering a user's code. The display will indicate a Fire Alarm for this point on all partitions. A fire reset command must be entered after silencing the alarm to re-enable this point. If this point is programmed for trouble and the loop opens, the keypad will display "Fire Trouble" for this point and the keypad sounders will beep once every ten seconds.
- Fire Point with Verification: This is a point programmed that is identical to a fire point except that after the first alarm it will perform a fire reset and then wait up to two minutes for a second alarm. If a second alarm occurs within this two minute period, the system will indicate a fire alarm for this point. If there is no second alarm within this two minute period, the point will reset back to its normal condition.
- Water Flow Point: This is a point programmed to operate like a Fire Point, but is specifically intended for water flow switches. An optional retard timer can be programmed to compensate for changes in water pressure. If the timer is used, the water flow point must be activated for the complete time period; an alarm will be initiated at the end of the timer period.
 Note: Only points 1 through 4 may be programmed to be water flow points.
- Supervisory: This is a point programmed to accommodate shut-off valves and will indicate a supervisory alarm at the keypads when activated.

Output Programming

- Point Alarm (Latching): This is an output programmed to activate upon any point alarm and will latch until the system has been disarmed. If this output is following a fire point, it will remain latched until the fire reset command is performed.
- ON during Entry Pre-Alert: This is an output programmed to activate when an entry/exit point is violated while the system is armed. It will remain activated until the system is disarmed, or until the entry delay time has expired.

- ON for 10 sec. after #80 is entered: This is an output programmed to activate for 10 seconds after #80 is entered at the keypad or if a fire point with verification activates. This output is intended to be used to power 4-wire smoke detectors or any other device that requires a power interruption to reset an alarm condition.
- Note: When Programmable Output 2 is programmed this way, it will normally supply Aux. power and will turn OFF for 10 seconds when #80 is entered.
- ON when System is Armed: This is an output programmed to activate when the system is armed.
 It will remain activated until the system is disarmed.
- Ground Start: This is an output programmed to activate for 3 seconds when the phone line is seized. It is intended for use with ground start phone systems that require a momentary short to ground to obtain a dial tone. Connect a separate form 'C' relay (not supplied by DS) to this output if using ground start. This output follows all partitions regardless of how data digit 2 of the output programming address is programmed. Not intended for U.L. Listed systems.
- System Status (ready to arm): This is an output programmed to follow the Status LED of the keypad It will activate when the system is ready to arm with no points violated.
- Point Alarm: This is an output programmed to activate when a point is in an alarm condition. It will remain activated until the system is disarmed or the bell cut-off time expires. This output is intended to activate alarm bells and sirens.
- Point Alarm Delayed by 20 sec.: This is an output programmed to activate for 20 seconds after a point enters an alarm condition. It will remain activated until the system is disarmed or the bell cut-off time expires. This output is intended to activate alarm bells and sirens, but provides a delay to allow the user to silence the system before it activates.
- Keypad Sounder Output: This is an output programmed to follow the keypad sounder. It activates during the entry pre-alert, all loud alarms, all day monitor alarms, chime mode activations, and when a key is pressed.
- Access Output: This is an output programmed to activate for 10 seconds when an access code is entered at the keypad. Not U.L. Listed for Access Control (UL294).

General Control Programming

- Level 1 Arming: If programmed, Level 1 Arming arms the entire system while allowing entry delays for entry/exit points.
- Level 2 Arming: If programmed, Level 2 Arming arms only the perimeter of the system and does not allow entry delays for entry/exit points.
- Level 3 Arming: If programmed, Level 3 Arming arms only the perimeter of the system while allowing entry delays for entry/exit points.
- Level 4 Arming: If programmed, Level 4 Arming allows custom arming of the system and bypasses the point types specified in data address 0632.
- Level 5 Arming: If programmed, Level 5 Arming arms the entire system and does not allow an entry delay for entry/exit points.
- Level 6 Arming: If programmed, Level 6 Arming force arms the entire system, bypasses any violated points, and allows an entry delay for entry/exit points. The number of points that can be force armed is selected in address 0637.
- Closing Ring-Back: If programmed, the sounders will activate for 2 seconds after the system is armed successfully. If the system is programmed to check the phone line on arming, the sounders will activate after the system confirms there is a dial tone. If a closing report is programmed, the sounders will activate after the closing report is successfully sent.
- Siren on Comm. Fail for Silent Point: If programmed, a silent point will sound the alarm outputs if the point is violated and a communicator failure is detected.
- Restore when Sounders Silence: If programmed, a point sends a restoral report and is ready to activate again only after the burglary bell cut-off time expires or the bells are silenced. The point can alarm multiple times per armed period.
- Restore when Point Restores: If programmed, a
 point sends a restoral report and is ready to activate
 again as soon as it physically restores. This point
 can alarm multiple times per armed period.
- Restore when System is Disarmed: If programmed, a point sends a restoral report when the system is disarmed. It can only alarm once per armed period.

 Allow Swinger Shunts: If programmed, a point can only alarm up to three times per armed period. After the third alarm, the point will be bypassed and a trouble report for this point will be sent.

Partition Control Programming

- Partition Control Programming: Up to four partitions may be used. They are assigned in order. For example: When using only one partition, it is partition one. When using three partitions, they are partitions one, two, and three.
- Common Area: Partition 1 can be programmed as a common area to two other partitions or to all the partitions. This allows it to be used in an installation with one common entry area such as a foyer or vestibule. When Partition 1 is programmed as a common area, it will only arm when all the partitions that it is common to are also armed. The common area will disarm when any of the other partitions that it is common to are disarmed only if the user has access to the common area. When using a common area, a master keypad should be used and assigned to the common area (see keypad assignment programming).

Keypad Assignment Programming

- Keypad Assignment: The keypad type and the partition it is assigned to must be programmed. Each data address (0016-0019) programs two keypads.
 For example: data digit 1 of address 0016 is for keypad 1, data digit 2 of address 0016 is for keypad
- Master Keypad Programming: A master keypad can be used to access all the partitions. It will display the arm/disarm status of all the partitions and can be used to individually control each partition. (see operating section for an explanation of the keypad displays). A master keypad can be assigned to any of the partitions. Any number of the 8 allowable keypads can be a master keypad. When using the common area, it is suggested that a master keypad be used and that it is assigned to the common area.

Point Assignment Programming

- Single Point Input: This is an individual point such as the on-board points, and multiplex contact points.
- 8-Input Module or Dual Input Remote: This is a
 point connected to one of the 8-Input Modules or to a
 Dual Input Remote. The inputs are programmed
 separately (see the programming chart for point
 addresses). When using the Dual Input Remote,
 loop A is always programmed as an odd number
 data address (ending in 1, 3, 5, 7, or 9). Loop B is
 the even numbered data address that follows loop A.

Emergency Key Programming

Note: For the DS7440 Keypad, the clear protective case covering the Emergency Keys must be pulled down before the keys can be pressed.

- Fire Key: The emergency key (key A) at the bottom left of the keypad entry area is the Fire Key. If programmed, the key will activate a fire alarm when pressed for 2 seconds.
- Special Emergency Key: The emergency key (key B) at the bottom center of the keypad entry area is the Emergency Key. If programmed, the key will activate an emergency alarm when pressed for 2 seconds.
- Panic Key: The emergency key (key C) at the bottom right of the keypad entry area is the Panic Key. If programmed, the key will activate a panic alarm when pressed for 2 seconds.

Key 4 Arming Programming

 Key 4: If programmed, Key 4 may be used to custom arm the system by arming only certain point types. For example: All interior point types plus some perimeter point types may be bypassed while leaving some of the perimeter armed.

Open/Close Report Control Programming

 Open and Close Reports: If programmed, these reports are sent when the system is armed or disarmed. They may be sent independently for the opening and closing of each partition, or the first partition to open and the last partition to close may send the reports.

- Send Trouble at Close for Bypassed Points: If programmed, a trouble report will be sent for each point bypassed when the system is armed.
- Alternate between both Phone Numbers: If programmed, open and close reports will be sent alternately between both phone numbers until successful.

Phone Number General Control Programming

- Enable Remote Programmer Callback: If programmed, when the remote programmer tries to initiate a session with the panel, the panel will hang up and call the remote programmer phone number. This ensures the correct remote programmer is initiating the call
- Dial Pulse on all Phone Numbers: If programmed, the panel will dial to phone number 1, 2, and the remote programmer phone number 3 using the pulse format.
- Dial Tone on all Phone Numbers: If programmed, the panel will dial to phone number 1, 2, and the remote programmer phone number 3 using the tone format.

Phone Answering Programming

- Phone Answering Programming: The panel can be programmed to answer the phone after a selected number of rings for remote programming access. It can also be programmed to answer the phone after a different number of rings when in armed or disarmed states. This can be used to call the panel location and determine its arming state.
- Answering Machine Bypass: This feature allows
 the panel to answer incoming calls when answering
 machines are used. If the line rings, stops ringing,
 then rings again within one minute, the panel will
 seize the phone line on the first ring. To disable this
 feature, program the panel to answer after 12 rings.

Force Arming Programming

• Force Arming: If programmed, allows violated points to be force armed. When force arming, the user must enter the usual arming command followed by a 9. This automatically bypasses points that are violated and programmed as bypassable. Fire points, supervisory points and non-bypassable points can not be force armed. Not available in U.L. Listed systems.

Report Programming

• Reports: For pulse formats, reports are programmed by entering information in the reporting and extended digits. The report will send the information programmed for each event. For SIA and Contact ID, the report formats are fixed and may be activated by placing a 1 in the reporting digit. To disable a report, enter a 0 in the reporting digit. To send the Man Number along with Open and Close reports, program an "F" (*5) in the extended digit.

Octal Relay Module (DS7488) Programming

 Octal Relay Module: The Octal Relay Module connects to the options bus. It provides 8 form 'C' outputs that can be programmed to follow different events. The outputs can follow these events per partition or for all partitions. Each output responds individually from the other 8 outputs for complete flexibility. Not investigated by Underwriters Laboratories.

FCC Compliance Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Phone Connection Notice To Users

This control complies with Part 68 of the FCC rules.

On the inside of the enclosure is a label that contains, among other information, the FCC Registration Number and the Ringer Equivalence Number (REN) for this equipment. You must, upon request, provide this information to your local telephone company.

The REN is useful to determine the quantity of devices that you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices that you may connect to your line, you may want to contact your local telephone company to determine the maximum REN for your local calling area.

This equipment may not be used on coin service provided by the telephone company. This control should not be connected to party lines.

Should this equipment cause harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advanced notice isn't practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC. The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If you experience trouble with this equipment, please contact the manufacturer for information on obtaining service or repairs.

The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning. The repairs to this equipment must be made by manufacturer and not by the user.

To guard against accidental disconnection, there is

ample room to mount the Telco jack to the inside of the Control cabinet.

The operation of this Control may also be affected if events such as accidents or acts of God cause an interruption in telephone service.

Canadian Dept. of Communications

General Installation Requirements: Notice: The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network, protective, operational, and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure, for their own protection, that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

<u>Caution</u>: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

Terminal Requirements: The <u>Load Number</u> (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device, to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the total of the Load Numbers of all the devices does not exceed 100. The Load Number of the DS7400 is 2.

RFI Requirements: This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le present appareil numerique n' emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la classe A prescrites dens le Reglement sur le brouillage radioelectrique edicte par le ministere des Connumications du Canada.

Operating the DS7400

Turning ON (arming) the System

The green Status light must be on steady (Alpha keypad will show READY TO ARM).

If the green Status light is not on, or display is showing NOT READY, then see FORCE ARMING or AREA BYPASS.

Type of Arming Desired	Enter PIN followed by:	What will Happen	What to Do
Normal Circumstances No one on Premises, entry allowed	#1	 The red <u>Armed</u> light will begin to flash. ARMED will be displayed (7440 only). EXIT NOW will display for the exit delay interval. A single beep will sound. The red <u>Armed</u> light will turn on after the exit delay expires. 	Exit during the exit delay interval. premises.
Someone on Premises, no entry allowed	#2	 The red <u>Armed</u> light will begin to flash. PERIMETER INSTANT will be displayed (7440). EXIT NOW will display for the exit delay interval. The green <u>Status</u> light will turn on steady. A single beep will sound. Only exterior protection areas will be armed. The red <u>Armed</u> light will turn on after the exit delay. 	Move freely around the interior of the premises
Someone on Premises, entry allowed	#3	 The red <u>Armed</u> light will begin to flash. PERIMETER ON will be displayed. EXIT NOW will display for the exit delay interval The green <u>Status</u> light will turn on steady. A single beep will sound. Only exterior protection areas will be armed. The red <u>Armed</u> light will turn on after the exit delay. 	Move freely around the interior of the premises
Custom Arming	#4	 The red <u>Armed</u> light will begin to flash. ON PARTIAL will be displayed. EXIT NOW will display for the exit delay interval. The green <u>Status</u> light will turn on steady. A single beep will sound. The red <u>Armed</u> light will turn on after the exit delay. 	Exit during the exit delay interval.
Full Arming, no entry allowed	# 5	 The red <u>Armed</u> light will begin to flash. ARMED INSTANT will be displayed. EXIT NOW will display for the exit delay interval. A single beep will sound. The red <u>Armed</u> light will turn on after the exit delay. 	Exit during the exit delay interval. CAUTION: Violating any point after the exit delay will cause an instant alarm.

Turning OFF (disarming) the System / Silencing Alarms

Please read the section on Emergency Procedures prior to being confronted with an emergency event.

Type of Disarming	Enter this Code	What will Happen
Disarming the System	PIN NUMBER #	Red <u>Armed</u> light will turn off. Pre-alert sounders will silence.
Silencing Alarms	PIN NUMBER #	Alarms in progress will silence.

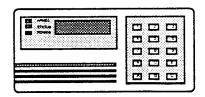
Turning OFF (disarming) the System under Duress

A Duress code is used when someone demands, by threatening your life or well-being, that the system be turned off. When used, the code will both turn off the system <u>and</u> report a silent Duress alarm if connected to a monitoring service.

Extreme care should be used when entering your PIN to turn off the system so that a Duress code is not inadvertently entered.

Type of Arming	Enter this Code	What will Happen
Disarming System under Duress	DURESS CODE) #	System will appear to disarm normally. A Duress code will be sent to the central station.

Emergency Keypad Alarms

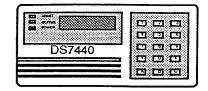


The Alarm Keys [A], [B], and [C] may generate Fire, Supplemental, and Silent alarms if programmed by the installer. Ask your installing company to explain the function of these keys.

The Alarm Keys must be held down for two seconds to generate an alarm. For the 7440 Keypad, the clear protective case covering the Emergency Keys must be pulled down beforew the keys can be pressed.

Use the Disarming command sequence to cancel or silence these alarms.

Keypad Displays



Light	Off	Flashing	On
Armed (red)	The control is disarmed.	Exit delay in progress or an alarm has occured.	The control is armed, and no alarms have occured.
Status (green)	One or more points are not ready to arm.	One or more points are bypassed.	All points are ready to arm.
Power (green)	Control has lost all power; no AC or battery.	Control problems exist. See <i>Error Display</i> .	Normal Operation. The control is running on AC power with no problems.

Error Displays

If a control problem occurs, the POWER light will flash and the display will indicate "Control Trouble, Press #87".

Control troubles may be one or more of the following:

- 1. AC Power Failure: There is a power failure and the panel is operating on backup battery.
- 2. Low Battery: If system has just been through a power failure, wait at least two hours for the battery to recharge, then enter #85 to perform a battery test.
- 3. Communication Failure: The communicator failed to communicate with the central station.
- 4. System Fault: Internal error in the control circuitry or optional circuitry. These faults are designated as follows:
 - 01 = RAM Error
 - 02 = ROM Error
 - 03 = EEPROM Error
 - 04 = Ground Fault
 - 10 = Loss of Communication to DS7420*
 - 11 = DS7420 Phone line 1 Fault*
 - 12 = DS7420 Phone line 2 Fault*
 - 13 = DS7420 Bell Circuit Fault*
 - 20 = Loss of Communication to Octal Relay Module DS7488*

- 5. Keypad Fault: One of the keypads is not responding.
- 6. Multiplex Bus: The multiplex bus is defective or has been shorted.
- 7. Aux Power Fault: The auxiliary power has been shorted.

Action Desired	Enter PIN followed by:
Read Error Message when green <u>Power</u> light is flashing	#87
Clear Error Display	#87*

* = Not U.L listed

Access Control

Your system may use a Keypad key sequence to activate other electrical devices. The special PIN required to perform this function is known as an Access Control PIN. This feature can be used in armed or disarmed modes.

Momentary Access Control Activation



• The access device will be activated for 10 seconds.

This feature must be disabled on UL certified installations.

Chime Mode

This mode causes the control sounders to beep each time a Perimeter or Entry / Exit area is violated while the control is turned off (disarmed). The #7 command is used to turn the chime mode ON or OFF.

Action Desired	Enter Pin followed by:	What will Happen
Turn ON Chime Mode	# 7	The keypad sounders will beep for two seconds every time a perimeter or entry exit point is violated.
Turn OFF Chime Mode	# 7	

Area Bypass

There may be occasions when it is desirable or necessary to temporarily bypass one or more points prior to arming the system. For instance, an open window may cause the 7440 display to read **NOT READY**.

Only one area may be bypassed each time the command is used. If more than one area requires bypassing, repeat the command for each area to be bypassed.

NOTE: See Force Arming for another method of area bypassing.

Type of Bypassing Desired	Enter PIN followed by:	What will Happen	What to Do
Bypass Faulted Points	# 9 1 2 3 Point Number	The <u>Status</u> light will begin to Flash.	Arm panel, if desired, with entered zone(s) bypassed.
Read Faulted Points	# 9	BYPASS will be displayed followed by the point number of any bypassed points.	
Clear Individual Bypassed Point(s)	# 9 1 2 3 Point Number	Area Bypass will be cleared.	
Clear all Bypasses	#9*	All Bypasses will be cleared.	

NOTE: All bypasses are cleared when the system is disarmed, unless they are on 24 hour points.

Force Arming

When one or more points are faulted, the system may be force armed by bypassing the faulted points. The 7440 display will read **NOT READY** when force arming is required to arm the system.

Warning: Bypassing or force arming removes some of your buildings protection because it excludes the faulted points from arming. Therefore, an intrusion may not be detected or the detection may be delayed. Always attempt to correct any point problems (close doors and windows etc.) before using these features. If the problem can not be corrected, contact your installing company.

Type of Arming	Enter PIN followed by:	What will Happen	What to Do	What will Happen	What to Do
Force Arming	# 1 or # 2 or # 3	A 5 second beep occurs, indicating the control has faulted points and needs to be force armed or a three-beep error tone occurs indicating force arming has not been accepted or allowed.	Press 9 during 5 second beep	The red Alarm LED will flash during the exit delay. The control panel will arm with faulted points bypassed	If leaving the premises, exit during the exit delay interval

Fire Reset / Fire Trouble

Fire Reset

A PIN followed by the command below







will reset any smoke detectors after a fire alarm has occurred.

Before this command is used, determine which smoke detector has alarmed.

Fire Trouble

A Fire Trouble message signifies a problem with the fire system, such as a break in the wiring that monitors smoke detectors.

A Fire Trouble will be indicated by a short beep from the keypad sounders every 10 seconds. The 7440 will display a message of FIRE TROUBLE and will display the point(s) in a trouble condition.

The Fire Trouble beep can be silenced with any PIN followed by the [Command/#] key. After problems have been remedied, a PIN [#] should again be entered to clear the FIRE TROUBLE display.

Fire Safety

WARNING: No fire detection device or system should be considered 100% fool proof.

This fire alarm system can provide early warning of a developing fire. Such a system, however, does not assure protection against property damage or loss of life resulting from a fire. Any fire alarm system may fail to warn for any number of reasons (e.g. smoke not reaching a detector that is behind a closed door).

When considering detectors for residential applications, refer to NFPA Standard 72, "The National Fire Alarm Code." This standard is available at a nominal cost from: The National Fire Protection Association, Batterymarch Park, Quincy, MA. 02269.

If Installed in Family Residences:

Adherence to the NFPA Standard 72 can lead to reasonable fire safety when the following items are practiced:

- Minimize hazards: Avoid the three traditional fire killers: smoking in bed, leaving children home alone, and cleaning with flammable liquids.
- Providing a fire warning system: Most fire deaths occur in the home, the majority, during sleeping hours. The minimum level of protection requires smoke detectors to be installed outside of each separate sleeping area and on each additional story of the dwelling.

For added early warning protection, it is recommended that detectors be installed in all separated areas including the basement, bedrooms, dining room, utility room, furnace room, and hallways.

- Having and practicing an escape plan: A fire warning may be wasted unless the family has planned in advance for a rapid and safe exit from the building.
- Draw a floor plan of the entire house showing two exits from each bedroom, and two from the house.
 Since stairwells and hallways may be blocked during a fire, the plan should provide exits from bedroom windows.

Make copies of the plan and practice it with all family members.

- Pre-arrange a meeting place **outside and away from** the residence. Once out of the building, all occupants should immediately go to the pre-selected location to be accounted for.
- Provide a barricade between family members and fire, smoke, and toxic gases (e.g. close all bedroom doors before retiring).
- Children should be instructed on opening their bedroom windows and exiting safely from the building. If exiting is not possible, they should be taught to stay at the open window and shout for help until it arrives.

- In the event of a fire alarm after retiring, awake the children by shouting to them from behind your closed door. Tell them to keep their bedroom doors closed.
- If the top of your bedroom door is uncomfortably hot, do not open it. There is most likely fire, intolerable heat, or smoke on the other side. Shout to all family members to keep their bedroom doors closed and to exit the building via alternate routes.
- If the top of the door is not uncomfortably hot, brace the bottom of the door with your foot, and the top with one hand, then open the door about one inch. Be prepared to slam the door shut if there is any pressure against the door or if any hot air rushes in.
- If there is no evidence of excessive heat or pressure, leave the room and close the door behind you. Shout appropriate instructions to all family members and immediately leave the building via the pre-planned routes. If heavy smoke is present, drop to your hands and knees, or crawl to remain below the smoke level.

Installation Considerations

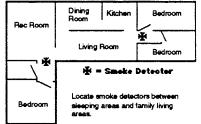
Proper location of detection devices is one of the most critical factors in a fire alarm system.

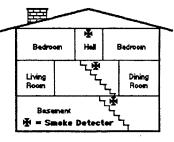
The following are some general considerations:

• Smoke detectors should <u>not</u> be installed in "dead air"

spaces or close to ventilating or airconditioning outlets because smoke may be circulated away from the detector. Locations near air inlets should be favored.

- Avoid areas subject to normal smoke concentrations such as kitchens, garages, or near fireplaces.
- Do not install smoke detectors where normal area temperatures are above 100 degrees F. (38° C.) or below 32 degrees F. (0° C.).
- Areas of high humidity and dust concentrations should be avoided.





A smoke detector should be located on each story including basements, but excluding creat spaces and unfinished attics.

- The edge of ceiling mounted detectors should be no closer than 4 inches (10 cm) from any wall.
- Place the top edge of wall mounted detectors between 4 and 12 inches (10 to 30 cm) from the ceiling.

For exact mounting information, refer to the instructions provided with the smoke detectors.

Personal Identification Numbers

General Information

When programing Personal Identification Numbers, it is helpful to know the following terms:

- PIN: Personal Identification Number. This is the code entered at the keypad to gain access to the system.
- Man Number: This number represents the person using the system.
- Authority Level: This number represents the ability each person has and determines which functions they can perform.

Your system has 60 PINs, each 4 digits long. Each Man Number can have only one PIN. Attempting to assign the same PIN to two different Man Numbers will result in the three-beep error tone, and the change will not be made.

Man Number 01 is designated as a **Master Code** and requires authority level 0. It can be used to add, delete, read back, or change other PINs.

Man Number 01 is shipped from the factory with the sequence of 1 2 3 4. This code should be changed to one of your personal preference, and must be programmed as a Master Code. PINs should never be programmed with common sequences such as 1234, 1111, or 2468.

Removing a Pin

To disable (remove) a PIN, enter a Master Code, [Command/#] - [Program/0] - [Program/0], the PIN to be cancelled, and then [Command/#] again.

Note: PIN 01 can not be cancelled in this manner.

Steps to Change a PIN	Enter	If Accepted, Display Reads
# 1. Enter Master Code Program Mode.	1234 #0 Master Code	"0 User Change"
# 2. Enter 0.	0	"ENTER MAN No." (0010XX)
#3. Enter the Man Number.	001-060	"ENTER Authority Level" Level (0-6)
# 4. Enter the Authority Level.	0-6	"ENTER Area(s) or # for all"
# 5. Enter the Area(s) (partition(s)) this user has access to.	1, 2, 3, and/or 4 then #	"ENTER Next Area, End with #"
# 6. Enter the PIN.	Any 4 digits	"ENTER CODE"
# 7. Enter the PIN again followed by the # key.	PIN#	"Verify Code End with #" Long beep sounds signifying acceptance of the new code.

PIN Authority Levels

- 0 = Master code: Can enter all commands, change PINs, change time and date, bypass, arm and disarm, and view history. PIN1 must be a master code and must have authority 0. Any or all PINs may be master codes.
- 1 = **Unlimited Code**: Can enter all commands, bypass, arm and disarm. Can not change PINs.
- 2 = General Code: Can bypass, arm and disarm. Can not change PINs or enter Command 7 or any of the Command 8 functions.
- 3 = **Arm Only Code:** Can arm the system with command 1 arming only. Can not perform any other functions including disarming.

- 4 = **Temporary Code:** Valid only for a specified time. Can arm and disarm the system, but can not perform any other functions.
- 5 = Duress Code: When the system is disarmed using a duress code, a silent report is sent to the central station. Duress codes are intended to be used when the user is forced to disarm the system.
- 6 = Access Code: When a PIN with Access Code authority is entered, any output programmed for Access Output will pulse on for 10 seconds (works when the system is armed or disarmed).

Changing the Date, Experation Date (for Temp. Codes), and the Time

Steps to Change the Date	Enter	If Accepted, Display Reads
# 1. Enter Master Code Program Mode.	1234 #0 Master Code	"0 User Change" "2 Change Date"
# 2. Enter 2.	2	"ENTER Month" (0112)
# 3. Enter the Month.	01-12 (01= Jan / 12 = Dec)	"ENTER Day." (0131)
# 4. Enter the Day.	01-31	"ENTER Year." (XX) End with #
# 5. Enter the Year	The last two digits of the year.	"Month, Day, Year"

Steps to Change the Exp. date for Temp. Codes	Enter	If Accepted, Display Reads
# 1. Enter Master Code Program Mode.	1234 #0 Master Code	"0 User Change" "2 Change Date" "3 Change Date of Code Expiration"
# 2. Enter 3.	3	"ENTER Month" (0112)
# 3. Enter the expiration Month.	01-12 (01= Jan. 12 = Dec.)	"ENTER Day." (0131)
# 4. Enter the expiration Day. The temporary code will expire at Midnight on the day selected.	01-31	"ENTER Year." (XX) End with #
# 5. Enter the expiration Year.	last two digits of the year followed by #	"Month, Day, Year"

Steps to Change the Time	Enter	If Accepted, Display Reads
# 1. Enter Master Code Program Mode.	1234 #0 Master Code	"0 User Change" "2 Change Date" "3 Change Date of Code Expiration" "6 Change Time"
# 2. Enter 6.	6	"ENTER Day" (0107)
# 3. Enter the day	1-7 (1=Sunday, 7 = Saturday)	"ENTER Time." (01001259)
# 4. Enter the Time (Hour and minute)	0100-1259	"ENTER AM/PM." (4/6) End with #
# 5. Enter AM or PM.	4# or 6# (4=AM, 6=PM)	"Day - Time"

Testing



The Point Test is used to confirm that detectors will report alarms to the keypad. Point Test works on all burglary areas except 24 hour points and fire points.

While the keypad is in Point Test, no control alarms will activate an alarm, except a 24 hour point alarm or a fire alarm. These will override the Area Test function.

Type of Test	Enter a PIN followed by:	What will Happen	What to Do
Point Test	#81	TEST POINT will display followed by the point number of any points that have not been tested. NOW TESTING will display followed by the point number of any points that are violated.	Test each detector one at a time as instructed by the installing company. To exit the Area Test mode, enter your PIN followed by #.

Battery/Sounder Test

In the event of a power failure, your control has a built-in battery that will continue to power the control for many hours. The control automatically recharges the battery when power is restored.

In addition to an automatic battery test performed every 24 hours, the battery may also be tested manually.

This test also uses the battery to manually activate all the system sounders for 2 seconds. If the battery voltage is low, a battery fault will occur (see *Error Display*).

Communicator Test

This test is available only if your system transmits alarms and system information to a monitoring service, and has been programmed by the security installing company to permit communicator tests. A long beep will initially sound to acknowledge the start of the test. If the test is successful, the sounder will again issue one long beep. If the test fails, the keypad sounder will turn ON continuously. To silence the sounder, enter you PIN followed by the command key or press the reset * key.

Type of Test	Enter a PIN followed by:	What will Happen	What to Do
Battery/ Sounder Test	#85	All LEDs will light. The keypad sounder and all alarm sounding devices will operate for 2 seconds.	If test fails, the control will indicate a Control Problem. See Error displays. If power in your building has been off recently, wait 2 hours for the battery to recharge and then try again.
Communicator Test	#82	A long beep will sound. A "Test" report is sent to the monitoring service.	If test fails, the keypad sounder will sound continuously. To silence the sounder, enter your PIN followed by the command key or the reset * key. Note: This test may take several minutes to complete because the control will try 10 attempts before it fails this test.

The Master Keypad

The system may include a Master Keypad.

A Master Keypad gives access to all the partitions a user has access to. This is different from the normal keypads in the DS7400, in that normal keypads only give access to the partition they are assigned to. A Master keypad can be used to access all partitions. It will display the arm/disarm status of all the partitions and can be used to individually control each partition. The functioning of the Master Keypad can be changed to access partitions individually by entering Single Partition Mode. Single Partition Mode allows a user to program any or all of the partitions they have access to on an individual (one by one) format.

Master Keypad Displays

Light	Off	Flashing	On
Armed (red)	All partitions are disarmed.	One or more partitions are armed, or an alarm has occured.	All partitions are armed, and no alarms have occured.
Status (green)	Not ready to arm.	One or more points are bypassed.	All partitions are ready to arm.
Power (green)	Control has lost all power; no AC or battery.	Control problems exist. See <i>Error Display</i> .	Normal Operation. The control is running on AC power with no problems.

Master Keypad displays will differ slightly from normal keypads.

The Master Keypad display will show the Status of each partition, followed by the partition number.

For example, if all partitions are armed, the display will read:

Armed partition 1234

If only partitions 1 and 3 are armed, the display will read:

Armed partition 1 3

Displays for partitions that are Ready to Arm and Not Ready will display in the same manner.

Arming and Disarming with the Master Keypad

Arming and Disarming from the Master Keypad uses the same command sequences as the other keypads.

The sequences will change the state of all the partitions you have access to.

Single Partition Mode

Single Partition Mode is used to control individual partitions from the Master Keypad. To enter the Single Partition Mode, enter your PIN, then press the command key twice. This will call up the first partition you have access to. Enter the command sequence you wish for this partition. You do not need to use your PIN again to arm this partition or to bypass points. You do need to use your PIN to disarm this partition. To move on to the next partition you have access to, press the command key twice.

To exit the Single Partition Mode, hold the reset (*) key down for 2 seconds. The system will automatically drop out of Single Partition Mode after 40 seconds of no keypad entries.

How to Program the DS7400

Entering the Programmer's Mode: To enter the Programmer's Mode, enter the Programmer's Code followed by # 0.

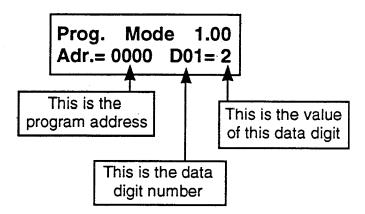
9876#0

The default Programmer's Code is 9876.

Reading back a Program Address: To read back a Program Address, enter the Program Address followed by #.

0000#

The display will look like this:



Entering a value in a Program Address: To enter a value in the Program Adress, enter the Program Address, then enter the value for each Data Digit followed by #.

Program Address Data Digit value

0 0 0 0 1 1 #

The display will show the Program Address and the value of each Data Digit as you enter them. The data will be programmed (saved) when you press the # key.

The control will automatically increment to the next program address.

- If you wish to program the next address, enter the information for that address.
- If you wish to read back the value of this address, press the # key.
- If you wish to program a different address, press the reset (*) key two times and enter the program address you wish to program.

If you make a mistake at any time, press the reset (*) key two times (before pressing the # key).

HEX values: Some Data Digit values are higher than 9. These values are programmed by pressing the reset (*) key followed by some other number. These values will display as HEX characters when entered.

The HEX character values are as follows:

*0 = A *1 = B *2 = C *3 = D *4 = E *5 = F

Defaults: The DS7400 is shipped from the factory as a working, pre-programmed control.

Many of the programming addresses may already be set to the values you need.

The default values are shown in reverse print

If the value you would like is in reverse print, you don't need to re-program this address.

In the example below, a "0" is the default value:

	0	1	2	3	4	5	6	7	8	9
Feature 1	•					•				•
Feature 2		•					•			•
Feature 3			•					•		•

If the default value is not shown in reverse print, it will be shown in (parenthesis) and designated as the default value or displayed in a separate table.

Setting the Control to the Factory Default: To set the control's programming values to the factory default, enter "0 1" for Program Address 2010.

NOTE: Entering "0 1" in Program Address 2010 will immediately rest the control to the factory default. Any programming done by the installer will be erased.

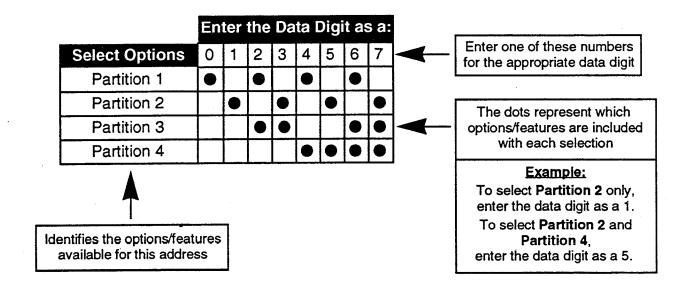
Only enter "0 1" in Program Address 2010 when you are completely sure you want to erase all installer programming.

Understanding the Programming Charts

The Programming Reference Guide makes use of two types of charts. Each is described below.

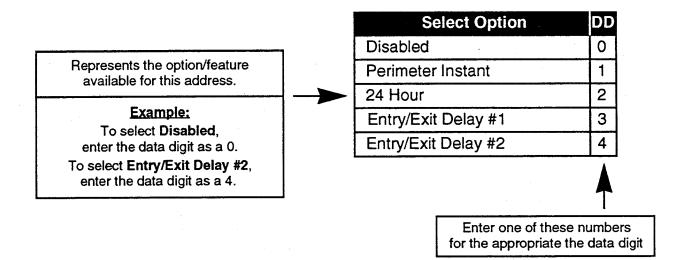
If the chart looks like this:

A combination of features is available to be programmed for that particular address.



If the chart looks like this:

Only a single feature is available to be programmed for that particular address.



Data Digit

Programming the DS7400

Point Type Programming: Program Addresses (0000-0007)

Point Type #	nt Type # Address			
1	0000	23		
2	0001	24		
- 3	0002	21		
4	0003	25		
5	0004	24		
6	0005	27		
7	0006	22		
8	0007	*5 *0		

					En	ter	the	Da	ta I	Dig	t as	s a:				
Select Options	0	1	2	3	4	5	6	7	8	9	*0	*1	*2	*3	*4	*5
Invisible Alarm	•		П		•				•				•			
Silent Alarm		•				•				•				•		
Steady Alarm Output			•				•				•				•	
Pulsing Alarm Output				•		Π		•				•				•
Bypassing Allowed	•	•	•	•	•	•	•	•								
Alarm on Short	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Alarm on Open	•	•	•	•					•	•	•	•				
Trouble on Open					•	•	•	•					•	•	•	•

Select Option	DD	
Disabled	0	┝
Perimeter Instant	1	┝
24 Hour	2	┝
Entry/Exit Delay #1	3	L
Entry/Exit Delay #2	4	L
Interior Entry /Exit Follower	5	
Interior Home/Away	6	_
Interior Instant	7	F
Day Monitor	8	
Keyswitch Input	9	
Fire Zone with verification	*0	H
Fire Zone without verification	*1	\vdash

Output Programming: Program Addresses (0008-0010)

Output	Address	Default
Alarm	0008	6 * 5
Programmed Output 1		3 *5
Programmed Output 2	0010	2 *5

Data Digit

Select Option	DD
Point Alarm (Latching)	0
ON during Entry Pre-Alert	1
ON for 10 s after entering #80	2
ON when system is Armed	3
Ground Start	4
System Status (ready to arm)	5
Point Alarm	6
Point Alarm delayed by 20 sec	7
Keypad Sounder Output	8
Access Ouput (10 sec. pulse)	9

· · · · · · · · · · · · · · · · · · ·														l	- 1	
					En	ter	the	Da	ta	Dig	t a	s a:			,	
Options	0	1	2	3	4	5	6	7	8	9	*0	*1	*2	*3	*4	*5
Disabled	•															
Partition 1		•	•	•										•	•	•
Partition 2						•	•							•	•	•
Partition 3								•	•	•				•	•	•
Partition 4											•	•	•	•	•	
Burg Alarm		•		•	•		•	•		•	•		•	•		•
Fire Alarm			•	•		•	•	i	•	•		•	•		•	•

General Control Programming: Program Address (0011)

Data Digit

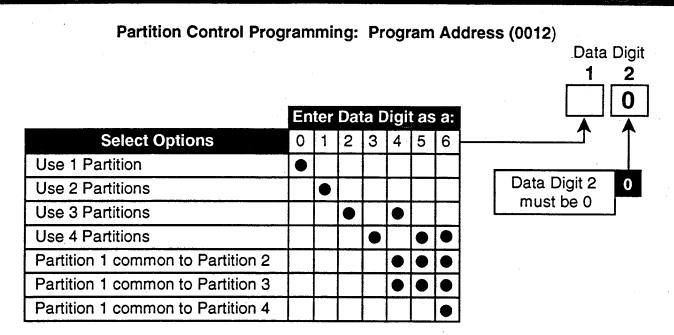
 Enter the Data Digit as a:

 Select Options
 0
 1
 2
 3
 4
 5
 6
 7
 8
 9
 *0
 *1
 *2
 *3
 *4
 *5

 Allow level 1, 4, and 6 Arming
 •
 •
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Enter DD as a:

Select Options	0	1	2	3	4
Restore when Sounders Silence	•			•	
Restore when Point Restores		•			•
Restore when System is Disarmed			•		
Allow Swinger Shunts				•	•



Keypad Assignment Programming: Program Addresses (0016-0019)

Keypac		Ac	ddre	ess	es	E	ata	a Di	git		Def	aul	t	
1 2 3 4 5 6 7 8		0016 0016 0017 0017 0018 0018 0019 0019				1 2 1 2 1 2 1 2				2000000			Data Digit	
			=	nte	r th	o D	ata	Di	ait.	26.				
Select Options	0	1	2	3	4	5	6	7	8	9	*0	*1	*2	
Disabled	•													
LED Keypad		•		•		•		•						
Alpha (LCD) Keypad			•		•		•		•	•	•	•	•	
Belongs to Partition 1		•								•				
Belongs to Partition 2				lacksquare	•						•			·
Belongs to Partition 3						•	•					•		
Belongs to Partition 4								•	•					·
Master Keypad										•	•	•	•	·

Data Digit

Programming the DS7400

Point Assignment Programming: Program Addresses (0022-0085)

Note:

Point Types are programmed on page 26.

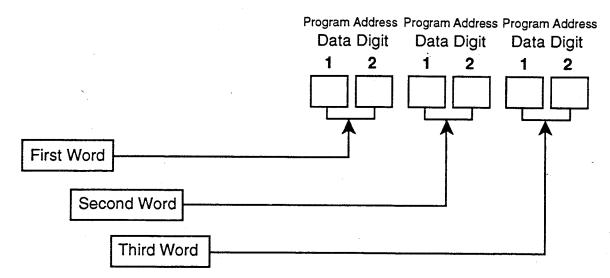
Point Number	Address	Default
1	0022	01
2	0023	02
3	0024	03
4	0025	04
. 5	0026	05
6	0027	06
7	0028	07
8	0029	08
9-64	0030-0085	00

Enter Data Digit as a:

Select Options	0	1	2	3	4	5	6	7
Onboard Point or Single Point Input	•	•	•	•				
8 Input Module or Dual Input Remote					•	•	•	•
Belongs to Partition 1	•				•			
Belongs to Partition 2		•				•		
Belongs to Partition 3			•				•	
Belongs to Partition 4				•				•

Select Option	DD	
Disabled	0	_
Follow Point Type 1	1	-
Follow Point Type 2	2	H
Follow Point Type 3	3	\vdash
Follow Point Type 4	4	\vdash
Follow Point Type 5	5	\vdash
Follow Point Type 6	6	\vdash
Follow Point Type 7	7	\vdash
Follow Point Type 8	8	┝

Alpha Description Programming: Program Addresses (0150-0341 and 0534-0545)



For Alpha programming Addresses, see the program chart on pages 37-40. To input an Alpha description for a point, use the chart on the next page (17).

Alpha Word Programming Values:

	*	-		9			
<u>Value</u>	<u>Word</u>	<u>Value</u>	Word	<u>Value</u>	<u>Word</u>	<u>Value</u>	<u>Word</u>
10	1st	63	EMERGENCY	*26	MARKETING	2*0	SKYLIGHT
		73	ENGINEERING	*36	MASTER	3*0	SLIDING
20	2nd						
30	3rd	83	ENTRANCE	*46	MAT	4*0	SMOKE
40	4th	93	EXIT	*56	MEDICAL	5*0	SOUTH
50	5th	*03	EXTERIOR	07	MEZZANINE	6* 0	SPRINKLER
60	6th	*13	FACTORY	17	MONITOR	7*0	STAGE
70	ACCOUNTING	*23	FAMILY	27	MOTION	8*0	STAIRS
80	AID	*33	FENCE	37	NORTH	9*0	STATION
90	ALARM	*43	FIELD	47	NURSERY	*0*0	STOCK
*00	AREA	*53	FIRE	57	OFFICE	*1*0	STORAGE
	ATTIC	04	FIRST	67	OPERATIONS	*2*0	STUDIO
*10		14	FLOOR	77	OUTSIDE	*3*0	STUDY
*20	AUDIT						
*30	AUDITORIUM	24	FLOW	87	OVEN	*4*0	SWIMMING
*40	BACK	34	FOIL	97	OVERHEAD	F*0	SYSTEM
*50	BALCONY	44	FOURTH	*07	PAINT	0*1	TAMPER
01	BASEMENT	54	FOYER	*17	PANIC	1*1	TEST
.11	BATHROOM	64	FREEZER	*27	PANTRY	2*1	TESTING
21	BEDROOM	74	FRONT	*37	PARKING	· 3*1	THIRD
31	BOILER	84	FUEL	*47	PARLOR	4*1	TOOL
41	BOYS	94	FURNACE	*57	PATIO	5*1	TOWER
51	BREAK	*04	GARAGE	08	PERIMETER	6*1	TRAINING
	BREAKFAST	*14	GATE	18	PERSONNEL	7*1	TRANSOM
61						8*1	
71	BUTTON	*24	GIRLS	28	PHONE		TRAP
81	CABINET	*34	GLASS	38	PLANT	9*1	VALVE
91	CAFETERIA	*44	GUEST	48	PLAY	*0*1	VAULT
*01	CARPORT	*54	GUN	58	POLICE	*1*1	VICE
*11	CASE	05	GYM	68	POOL	*2*1	WALL
*21	CASH	15	HALL	78	PORCH	*3*1	WAREHOUSE
*31	CEILING	25	HATCH	88	PRESIDENT	*4*1	WATER
*41	CELLAR	35	HEAT	98	PRODUCTION	F*1	WEST
*51	CLOSET	45	HOLDUP	*08	PULL	0*2	WINDOW
02	COMPUTER	55	HOUSE	*18	PUMP	1*2	YARD
12	CONFERENCE	65	INCOMING	*28	PURCHASING	2*2	ZONE
	CONTROL	75	INSIDE	*38	QUALITY	~ ~ .	ZONE
22							
32	COOLING	85	INSPECTION	*48	REAR	01	0 1 14 14
42	COPIER	95	INTERIOR	*58	RECEIVING	0*4	Custom Word 1
52	COPY	*05	JANITOR	09	RECEPTION	1*4	Custom Word 2
62	CORRIDOR	*15	KEYSWITCH	19	RECREATION	2*4	Custom Word 3
72	COURT	*25	KITCHEN	29	REPAIR	3*4	Custom Word 4
82	DECK	*35	LAB	39	RESEARCH	4*4	Custom Word 5
92	DEN	*45	LAUNDRY	49	ROOF	5*4	Custom Word 6
*02	DETECTION	*55	LAVATORY	59	ROOM	6*4	Custom Word 7
*12	DETECTOR	06	LEVEL	69	RUMPUS	7*4	Custom Word 8
*22	DEVELOPMENT	16	LIBRARY	79	SAFE	8*4	Custom Word 9
*32	DINING	26	LIQUOR	89	SALES	9*4	Custom Word 10
*42	DOCK	36	LIVING	99	SCREEN	3 4	Oustoill Word To
*52	DOOR	46 50	LOADING	*09	SECOND		
03	DOWNSTAIRS	56	LOBBY	*19	SECURITY		
13	DRAFTING	66	LOFT	*29	SENSOR		
23	DRAWER	76	LOUNGE	*39	SERVICE		
33	DRIVEWAY	86	LOWER	*49	SHED		
43	EAST	96	MAIN	*59	SHIPPING		
53	ELEVATOR	*06	MAINTENANCE	0*0	SHOP		
		*16	MANAGER	1*0	SIDE	,	

Custom Word Programming: Program Addresses (0546-0625)

When programming Alpha information, the standard library of words is sufficient for most applications. If additional words are needed, 10 custom words may be created (programmed). Custom Words are programmed one character at a time. Each character uses two Data Addresses. The Character values are shown in the chart below.

<u>Value</u>	Character	<u>Value</u>	Character	<u>Value</u>	Character	<u>Value</u>	Character
							_
02	blank space	83	8	15	Q	86	h
12	!	93	9	25	R	96	i
22	•	*03	:	35	S	*06	j
32	#	*13	;	45	T	*16	k
42	\$	*33	<	55	U	*26	I
52	%	*43	=	65	V	*36	m
62	&	*53	?	75	W	*46	n
72	ŧ	04	@	85	X	*56	0
82	(14	Α	95	Υ	07	р
92)	24	В	*05	Ζ	17	q
*02	*	34	С	*15	ſ	27	r
*12	+	44	D	*25	i	37	S
*22	,	54	E	*35]	47	t
*32	•	64	F	*45	۸	57	u
*42		74	G	*55	_	67	V
*52	1	84	Н	06	ī	77	w
03	0 .	94	1	16	а	87	x
13	1	*04	J	26	b	97	у
23	2	*14	K	36	С	*07	z
33	3	*24	L	46	d	*17	{
43	4	*34	M	56	е	*27	ì
53	5	*44	N	66	f	*37	}
63	6	*54	0	76	g	*47	~
73	7	05	P		,		

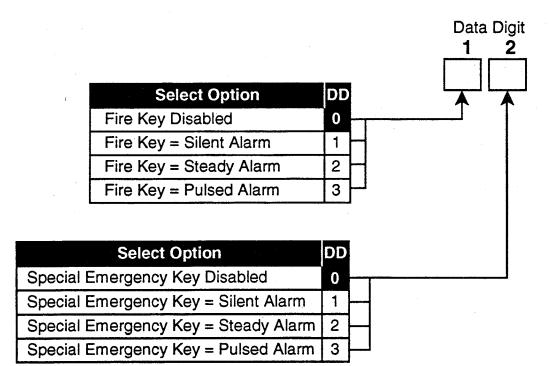
The ">" character is used to link two words together without a space, or to add additional characters to the end of a word such a "s" for plurals. The ">" character is displayed using a value of "E3" and should be placed at the end of the first word, the second word can be a custom word or a standard library word.

The Custom Words are programmed in the following addresses:

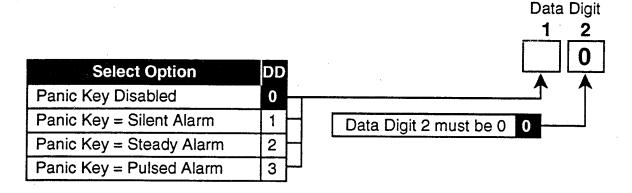
Custom Word Number	First Program Address
1	0546
2	0554
3	0562
4	0570
5	0578
6	0586
7	0594
8	0602
9	0610
10	0618

DS7400 Installation Instructions Copyright © 1993 Page 32

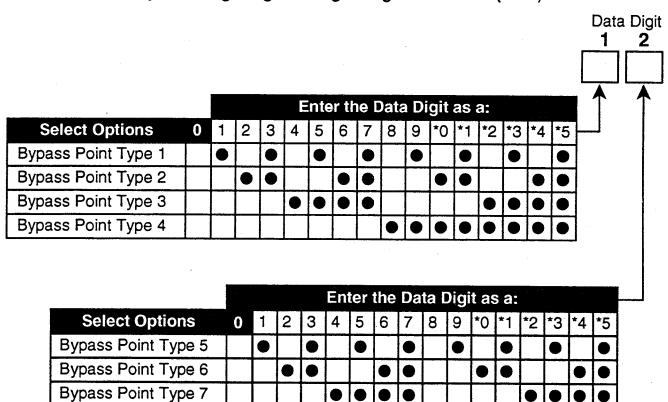
Emergency Key Programming: Program Address (0630)



Panic Key Programming: Program Address (0631)



Key 4 Arming Programming: Program Address (0632)

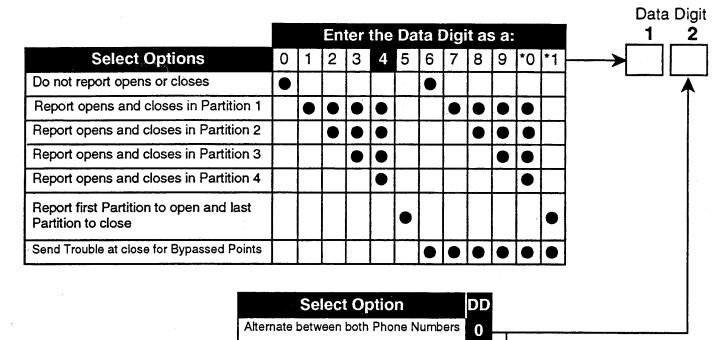


Bypass Point Type 8

Page 35

Programming the DS7400

Open/Close Report Control Programming: Program Address (0633)



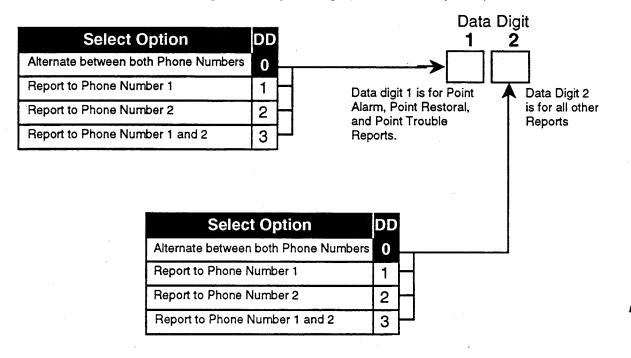
Report to Phone Number 1

Report to Phone Number 2

DS7400 Installation Instructions

Report to Phone Number 1 and 2

Report Control Programming: Program Address (0634)



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1

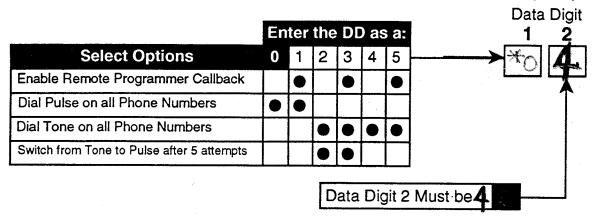
2

3

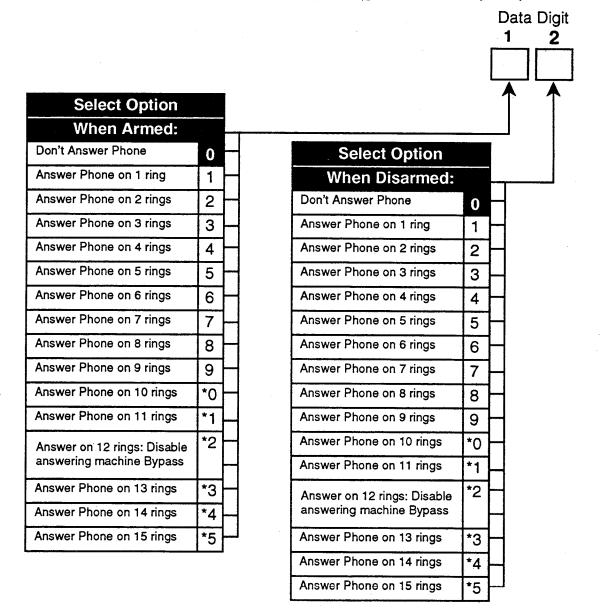
Page 36

Programming the DS7400

Phone Number General Control Programming: Program Address (0635)



Phone Answering Programming: Program Address (0636)

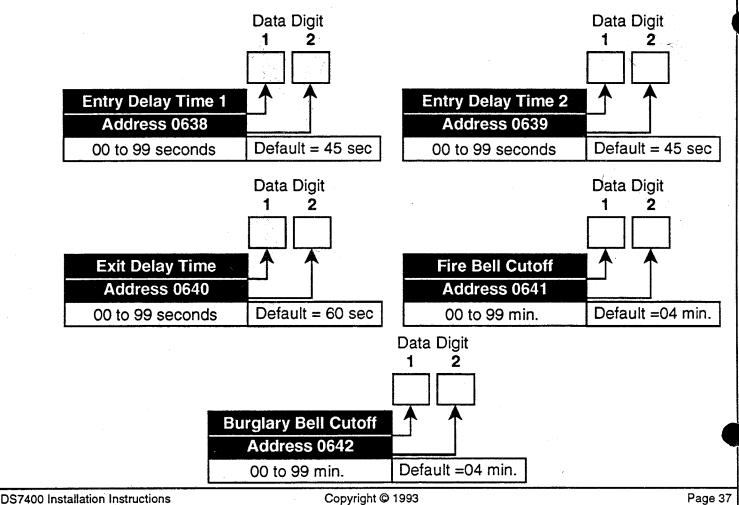


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DS7400 Installation Instructions

Programming the DS7400 Force Arming Programming: Program Address (0637) Data Digit **Select Option** DD Do not allow Force Arming 0 Allow up to 1 point to be Force Armed 1 Data Digit 2 must be 0 Allow up to 2 points to be Force Armed 2 Allow up to 3 points to be Force Armed 3 Allow up to 4 points to be Force Armed 4 Allow up to 5 points to be Force Armed 5 Allow up to 6 points to be Force Armed 6 Allow up to 7 points to be Force Armed 7 Allow up to 8 points to be Force Armed 8 Allow up to 9 points to be Force Armed 9

Timer Programming: Program Addresses (0638-0642)



Page 38

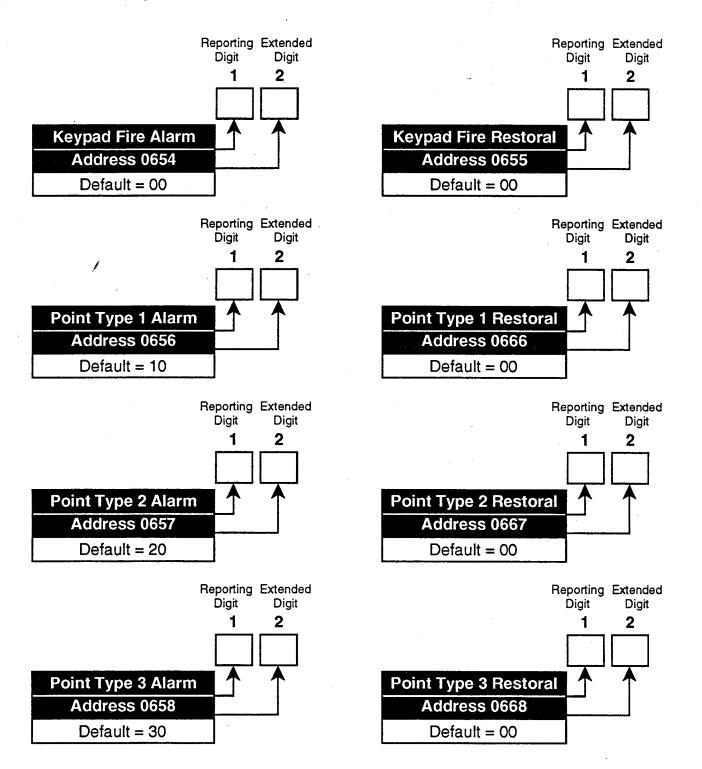
Programming the DS7400

Report Programming: Program Addresses (0654-0697)

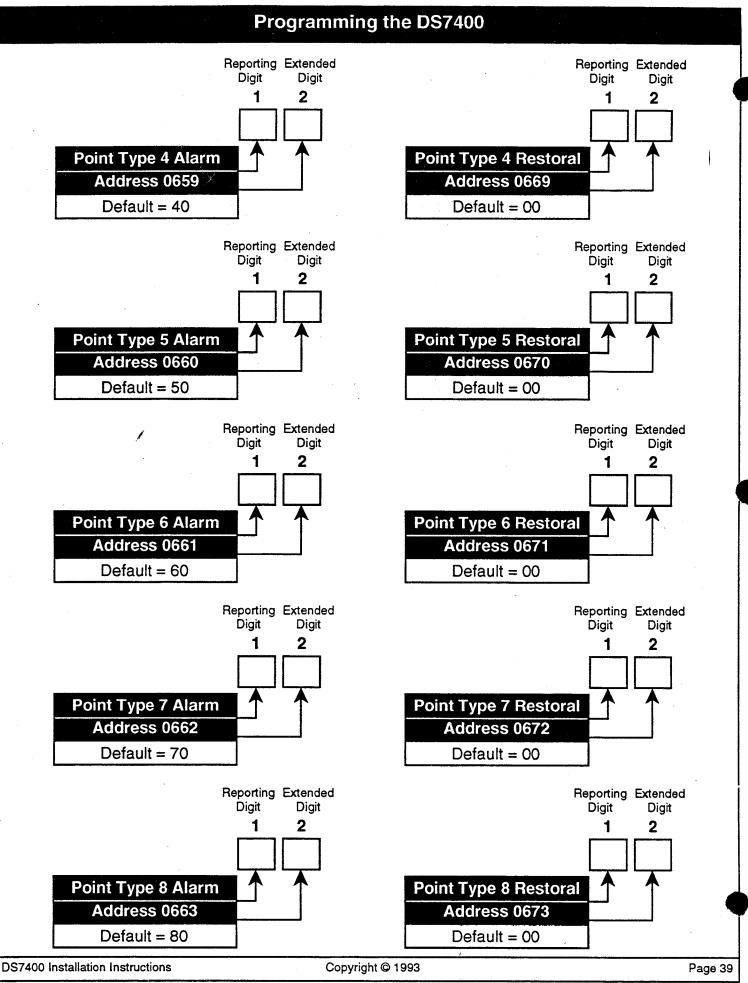
Note:

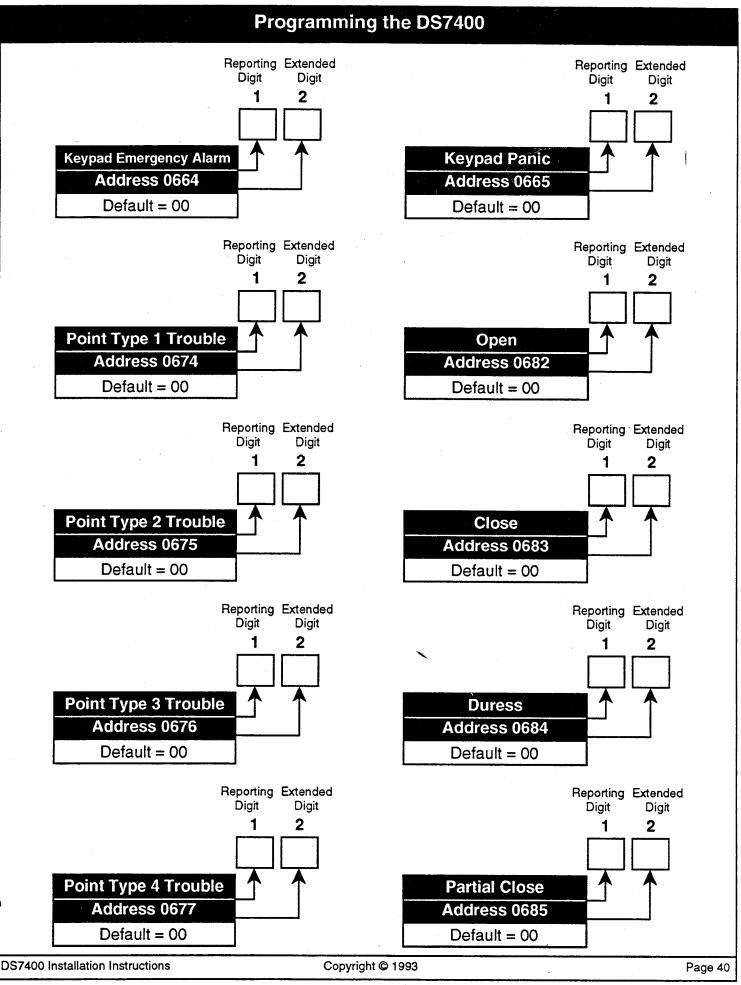
DS7400 Installation Instructions

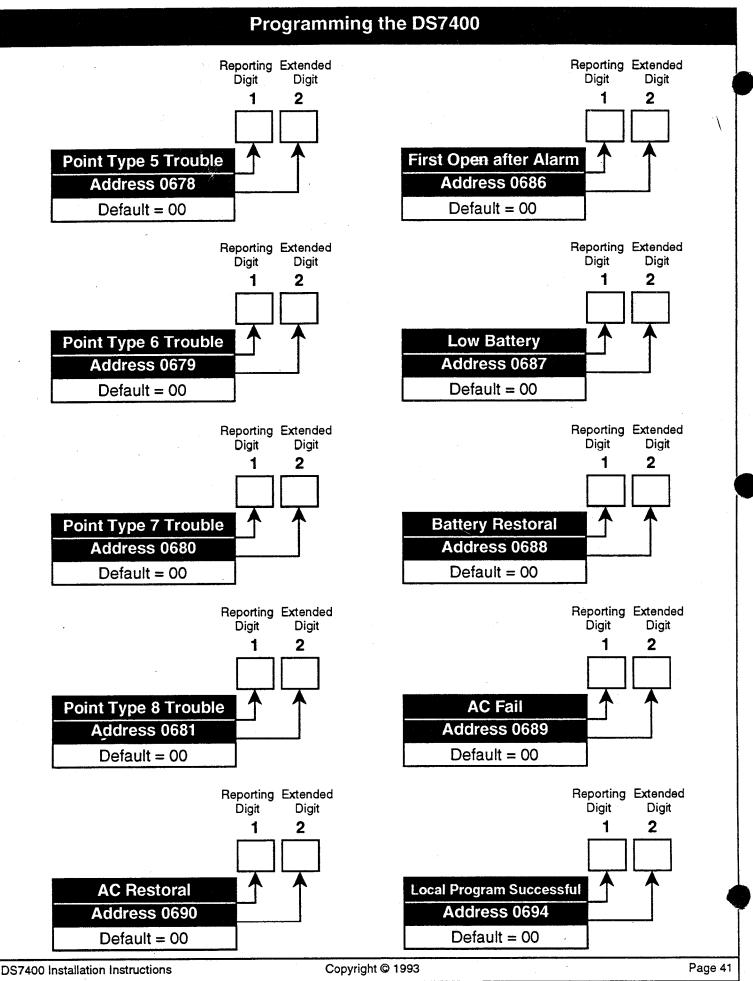
- When using SIA or Contact ID format, place a '1' in the reporting digit of each report you wish to enable.
- To disable a report, place a 0 in the reporting digit.
- To send the MAN number along with open, close, or partial close reports, place an 'F' (*5) in the extended digit.

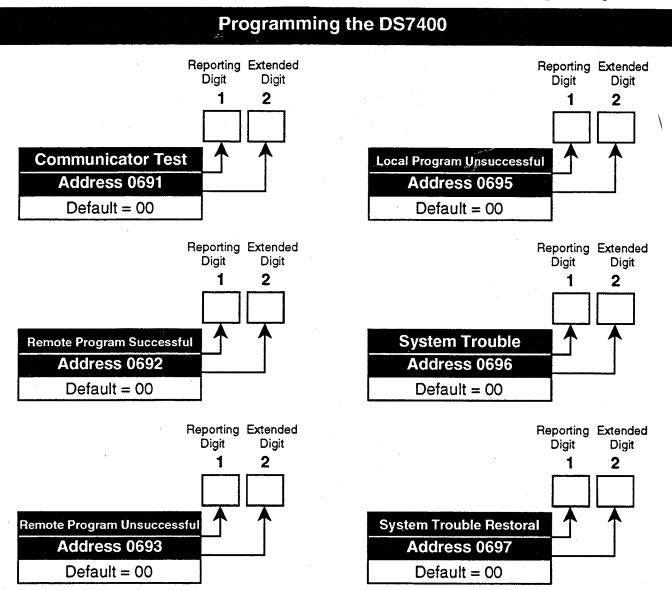


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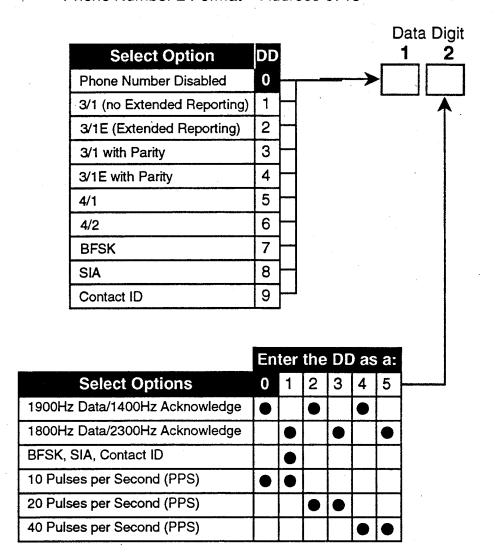




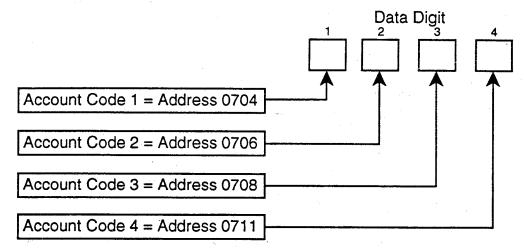
Phone Number Format Programming: Program Address (0712-0713)

Note:

Phone Number 1 Format = Address 0712 Phone Number 2 Format = Address 0713



Account Code Programming: Program Address (0704-0710)



The Default for all Account Codes = 0000

Note:

1. Account codes are programmed from left to right. If programming a 3 digit account code, the fourth digit of this address must be "0."

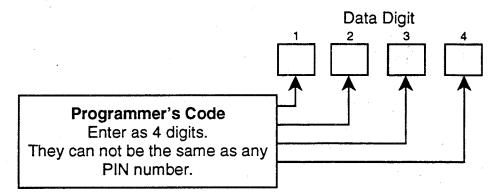
For example: If the account code is 123, program 1230 in the programming address.

- If you wish to send a zero "0", enter it as *0.
 For example, if the account code is 101, program 1*010 in the programming address.
- 3. When using multiple partitions, the account codes have special relationships to the partitions used.

The chart below explains these relationships:

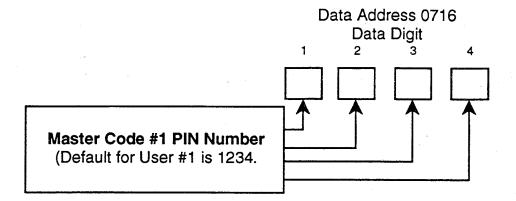
Account Number	Using 1 Partition	Using 2 Partitions	Using 3 Partitions	Using 4 Partitions
1	Partition 1 reports Using Phone #1	Partition 1 reports Using Phone #1	Partition 1 reports	Partition 1 reports
2	Partition 1 reports Using Phone #2	Partition 1 reports Using Phone #2	Partition 2 reports	Partition 2 reports
3	Not Used	Partition 2 reports Using Phone #1	Partition 3 reports	Partition 3 reports
4	Not Used	Partition 2 reports Using Phone #2	Not Used	Partition 4 reports

Programmer's Code Programming: Program Address (0714)



The Default for the Programmer's Code = 9876

Master Code and Authority Programming: Program Addresses (0716 and 836)



If the Master Code is lost, this address may be used to program a new one. Otherwise, the Master Code Programming Mode should be used.

Master Code #1 Authority is fixed at level 0. It will always have access to all partitions.

Data Digit

Programming the DS7400

Octal Relay Module Output (DS7488) Programming: Program Addresses (0866-0873)

Select Option	DD
Latch ON after Point Alarm	0
ON during Entry Pre-Alert	1
ON for 10 sec. after #80 in entered	2
ON when System is Armed	3
Ground Start	4
System Status (Ready to Arm)	5
Point Alarm	6
Point Alarm delayed by 10 sec.	7
Keypad Sounder Output	8
Access Output (10 sec. pulse)	9

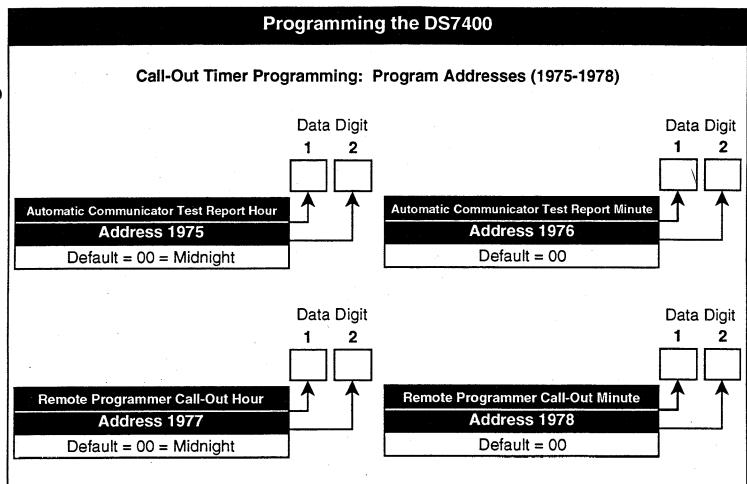
<u>.</u>		Enter the Data Digit as a:														
Follows	0	1	2	3	4	5	6	7	8	9	*0	*1	*2	*3	*4	*5
Partition 1		•	•	•										•	•	•
Partition 2					•	•	•							•	•	•
Partition 3								•	•	•				•	•	•
Partition 4											•	•	•	•	•	•
Burglar Alarm		•		•	•		•	•		•	•		•	•		•
Fire Alarm			•	•		•	•		•	•		•	•		•	•

OR

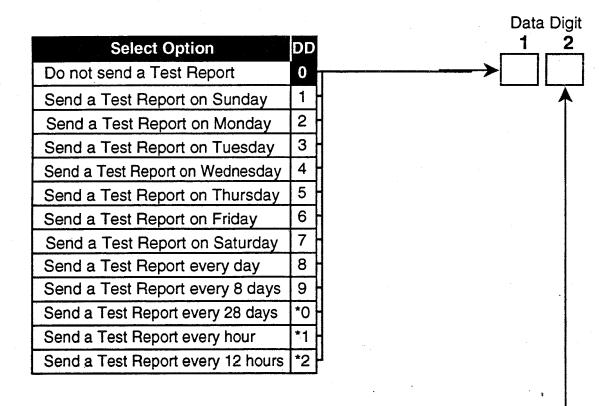
Select Option	DD
Disabled	0
AC Power Fail	1
Low Battery	2
Communicator Failure	3
System Fault (Any)	4
Keypad Supervision Fault	5
Multiplex Bus Fault	6
Radio Receiver Fault	7
Aux Power Fault	8
Fire Trouble	9
Point Trouble	*1
Duress	*2

			Data	Digit
		•	1	_2
Follow System Status Event	*2			
		-		^

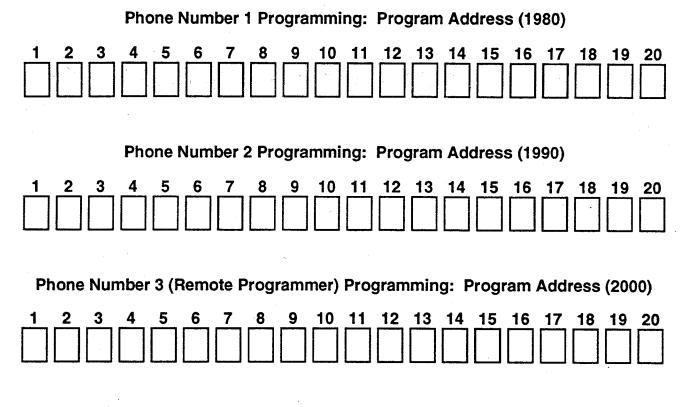
Octal Relay Output	Address
1	0866
2	0867
3	0868
4	0869
5	0870
6	0871
7	0872
8	0873



Test Report and Remote Programmer Call-Out Programming: Program Address (1979)



Select Option	DD
Do not call the Remote Programmer	0
Call the Remote Programmer on Sunday	1
Call the Remote Programmer on Monday	2
Call the Remote Programmer on Tuesday	3
Call the Remote Programmer on Wednesday	4
Call the Remote Programmer on Thursday	5
Call the Remote Programmer on Friday	6
Call the Remote Programmer on Saturday	7
Call the Remote Programmer every day	8
Call the Remote Programmer every 8 days	9
Call the Remote Programmer every 28 days	*0
Call the Remote Programmer on Sunday	*1
Call the Remote Programmer on Sunday	*2



Enter the Phone Number digits just as they would be entered when dialing the phone.

Note:

To input a three second delay, enter *3 (D). To disable a Phone Number, enter *5 (F) in the first digit.

The DS7400 is U.L. Listed for Household Fire Alarm, Household Burglary Alarm, Local Burglary Alarm Grade A, Police Station Connection grade A, and Central Station Burglary Alarm grades AA, A, B, and C. The DS7400 should be installed in accordance with U.L. 681, Installation and Classification of Mercantile and Bank Burglar Alarm Systems, or U.L. 1641, Installation and Classification of Residential Burglar Alarm Systems.

INSTALLATION CONSIDERATIONS

- Failure to install and program the DS7400 Control in accordance with the requirements in this section voids the listing mark of Underwriters Laboratories, Inc.
- The maximum standby battery capacity is 14A-h @ 12VDC.
- The total nominal standby current must not exceed 1.5A, and 2.5A when in alarm.
- The DS7400 control must be mounted indoors and within the protected area.
- Enclosure tamper switches (if used) must be connected to a 24 hour point.
- For commercial grade installations, wiring to the bell (if used) must be in conduit with no other wiring.
- For commercial grade installations requiring a bell and bell housing, the bell circuit must be made and supervised by means of metallic conductors to two ground clamps spaced at least 1/4 inch apart.
- Grounding must be to a cold water pipe where possible.
- At least one UL listed keypad with zone display must be connected.
- Zones must be connected to U.L. Listed, compatible devices.
- 50 Hz AC input cannot be used in U.L. certificated installations.
- The ground wire provided with the enclosure must be connected between the "GND" connection on the DS7400 board and the enclosure tab.
- The U.L. Listed compatible digital alarm communicator receivers (if used) are the Ademco model 685, the F.B.I. model CP-220, the I.T.I. model CS-4000, the Osborne-Hoffman model II, the Radionics models 6000 and 6500, the Sikent Knight model 9000, and the Varitech model V-300.

PROGRAMMING THE DS7400

When used in U.L. certificated installations, the DS7400 must conform to certain programming requirements. The following is a list of the required program entries and required accessories for specific U.L. certificated installations.

1. Household Fire Alarm using Digital Alarm Communicator Transmitter with local bell

The DS7400 must be installed in accordance with NFPA 74, and the U.L. 985 standard.

Required Accessories: At least one Detection Systems, Inc. Model DS200-2W (2 wire), or DS200-4W (4 wire) smoke detector, and one Wheelock 46T-G10-12 bell or 34T-12 horn (will provide 85db for UL 985 and NFPA 74 requirements; other listed compatible devices with a voltage range of 12 to 13.8V may be used) is required for this application and it must be installed inside the protected area. The standard DS7400 enclosure can be used. At least one DS7440 Keypad must be used. The 4-wire detector must be used with the Listed Detection Systems' EOL relay. All zones must be used with the EOL resistor (P/N 25899).

A. Report Programming:

- Fire Zone Report must be programmed.
- Low Battery Report must be programmed.
- AC Failure Report must be programmed.

B. Timer Programming:

- Bell Cutoff Time must be programmed for not less than 4 minutes.
- Dialer Delay must be programmed for not longer than 15 seconds.

C. Point Type Programming:

• The fire alarm output signal (whether pulsed or steady) must be different from the Burglar alarm signal.

- D. Alarm Output Programming:
 - Data address 0008 must be programmed as: Data Digit 1=0, Data Digit 2=*5.
- 2. Grade A Household Burglary Alarm using Digital Alarm Communicator Transmitter with local bell

The DS7400 must be installed in accordance with the U.L. 1641, and 1023 standards.

Required Accessories: At least one Wheelock 46T-G10-12 bell or 34T-12 horn (other listed compatible devices with a voltage range of 12 to 13.8V may be used) is required for this application. The standard DS7400 enclosure can be used.

- A. General Control Programming:
 - Points must be programmed for "Will Restore".
- B. Report Programming:
 - Burglar Zone Reports must be programmed for those zones used.
 - Low Battery Report (Program Address 0687) must be programmed.
 - AC Failure Report (Program Address 0689) must be programmed.
- C. Timer Programming:
 - Bell Cutoff Times (Program Addresses 0641 and 0642) must be programmed for not less than 4 minutes.
 - Exit Delay Timer (Program Addresses 0638 and 0640) must be programmed for not longer than 60 seconds.
 - Entry Delay Timer (Program Address 0639) must be programmed for not longer than 45 seconds.
- D. General Control Programming:
 - Residential or Commercial Mode (Program Address 0011, Data Digit 2) must be programmed for NO Swinger Shunts (enter 0, 1, or 2).
- E. Alarm Output Programming:
 - Data address 0008 must be programmed as: Data Digit 1=0, Data Digit 2=*5.

NOTE: For combination fire and burglary alarm applications, the DS7400 must be programmed to pulse the bell for a fire alarm (Point Type programming Addresses 0000-0007, Data Digit 1, enter 3, 7, *1, or *5), and produce a steady bell for a burglar alarm (Point Type programming Addresses 0000-0007, Data Digit 1, enter 2, 6, *0, or *4).

3. Local Burglary Alarm

The DS7400 must be installed in accordance with the U.L. 681, and 609 standards for all grades of service.

A. Grade A Installations using Digital Alarm Communicator Transmitter with local bell

Required Accessories: The Detection Systems' Model AE7400 Enclosure, the Ademco Model AD10-12 bell must be mounted in the Ademco Model AB-12 bell housing.

- 1. Report Programming:
 - Burglar Zone Reports must be programmed for those zones used.
 - Low Battery Report (Program Address 0687) must be programmed.
 - AC Failure Report (Program Address 0689) must be programmed.
 - Open Report (Program Address 0682) must be programmed.
 - Close Report (Program Address 0683) must be programmed.
 - 24 Hour Check-In Report (Program Address 0691) must be programmed.
- 2. Timer Programming:
 - Bell Cutoff Times (Program Addresses 0641 and 0642) must be programmed for not less than 15 minutes.
 - Exit, Entry Delay Times (Program Addresses 0638 and 0640) must be programmed for not longer than 60 seconds.
- 3. General Control Programming:
 - Must be programmed for Commercial Mode and no swinger shunts (Program Address 0011 data digit 1, enter 1, 3, 4, 7, 9, *1, *3, or *5, data digit 2, enter 0, 1, or 2).

- 4. Point Type Programming:
 - The Burglar alarm output signal (whether pulsed or steady) must be different from the Fire alarm signal.
- 5. Alarm Output Programming:
 - Data address 0008 must be programmed as: Data Digit 1=0, Data Digit 2=*5.

4. Police Station Connection

The DS7400 must be installed in accordance with the U.L. 681, 365, and 1635 standards.

A. Grade A Installations using Digital Alarm Communicator Transmitter with local bell

Required Accessories: The DS7400 must be mounted with a cover actuated tamper switch installed in the Detection Systems AE7400 enclosure. The Ademco Model AD10-12 bell must be mounted in the Ademco Model AB-12 bell housing.

- 1. Report Programming:
 - Burglar Zone Reports must be programmed for those zones used.
 - Low Battery Report (Program Address 0687) must be programmed.
 - AC Failure Report (Program Address 0689) must be programmed.
 - Open Report (Program Address 0682) must be programmed.
 - Close Report (Program Address 0683) must be programmed.
 - 24 Hour Check-In Report (Program Address 0691) must be programmed.
- 2. Timer Programming:
 - Bell Cutoff Times (Program Addresses 0641 and 0642) must be programmed for not less than 15 minutes.
 - Exit, Entry Delay Times (Program Addresses 0638 and 0640) must be programmed for not longer than 60 seconds.
- 3. General Control Programming:
 - Must be programmed for Commercial Mode, NO swinger shunts, and closing ringback. (Program Address 0011 data digit 1, enter 5, 7, *3, or *5, data digit 2, enter 0, 1, or 2).
- 4. Point Type Programming:
 - The Burglar alarm output signal (whether pulsed or steady) must be different from the Fire alarm signal.
- 5. Alarm Output Programming:
 - Data address 0008 must be programmed as: Data Digit 1=0, Data Digit 2=*5.

5. Central Station Burglary Alarm

The DS7400 must be installed in accordance with the U.L. 681, 1610, and 1635 standards for all grades of service.

A. Grade B Installations using Digital Alarm Communicator Transmitter with local bell

Required Accessories: The DS7400 must be mounted in the Detection Systems' model AE7400 attack enclosure with a cover actuated tamper switch installed. The Ademco Model AD10-12 bell must be mounted in the Ademco Model AB-12 bell housing.

- 1. Report Programming:
 - Burglar Zone Reports must be programmed for those zones used.
 - Low Battery Report (Program Address 0687) must be programmed.
 - AC Failure Report (Program Address 0689) must be programmed.
 - Open Report (Program Address 0682) must be programmed.
 - Close Report (Program Address 0683) must be programmed.
 - 24 Hour Check-In Report (Program Address 0691) must be programmed.
- 2. Timer Programming:
 - Bell Cutoff Times (Program Addresses 0641 and 0642) must be programmed for not less than 15 minutes.
 - Exit, Entry Delay Times (Program Addresses 0638 and 0640) must be programmed for not longer than 60 seconds.

- 3. General Control Programming:
 - Must be programmed for Commercial Mode, NO swinger shunts, and closing ringback. (Program Address 0011 data digit 1, enter 5, 7, *3, or *5, data digit 2, enter 0, 1, or 2).
- 4. Point Type Programming:
 - The Burglar alarm output signal (whether pulsed or steady) must be different from the Fire alarm signal.
- 5. Alarm Output Programming:
 - Data address 0008 must be programmed as: Data Digit 1=0, Data Digit 2=*5.

B. Grade C Installations using Digital Alarm Communicator Transmitter only

Required Accessories: The DS7400 must be mounted in the AE7400 attack resistant enclosure (order DS7400CC) with a cover actuated tamper switch installed.

- 1. Report Programming:
 - Burglar Zone Reports must be programmed for those zones used.
 - Low Battery Report (Program Address 0687) must be programmed.
 - AC Failure Report (Program Address 0689) must be programmed.
 - Open Report (Program Address 0682) must be programmed.
 - Close Report (Program Address 0683) must be programmed.
 - 24 Hour Check-In Report (Program Address 0691) must be programmed.
- 2. Timer Programming:
 - Bell Cutoff Times (Program Addresses 0641 and 0642) must be programmed for not less than 15 minutes.
 - Exit, Entry Delay Times (Program Addresses 0638 and 0640) must be programmed for not longer than 60 seconds.
- 3. General Control Programming:
 - Must be programmed for Commercial Mode, NO swinger shunts, and closing ringback. (Program Address 0011 data digit 1, enter 5, 7, *3, or *5, data digit 2, enter 0, 1, or 2).
- 4. Point Type Programming:
 - The Burglar alarm output signal (whether pulsed or steady) must be different from the Fire alarm signal.
- 5. Alarm Output Programming:
 - Data address 0008 must be programmed as: Data Digit 1=0, Data Digit 2=*5.

PA	Value	Definition	PA	Value	Definition
0000-1	1	Point Type 1	0029-1		Point 8 assignment
0000-2		Point Type 1	0029-2	†	Point 8 assignment
0001-1	 	Point Type 2	0030-1		Point 9 assignment
0001-2	1	Point Type 2	0030-2		Point 9 assignment
0002-1		Point Type 3	0031-1		Point 10 assignment
0002-2		Point Type 3	0031-2		Point 10 assignment
0003-1		Point Type 4	0032-1		Point 11 assignment
0003-2		Point Type 4	0032-2	1	Point 11 assignment
0003-2		Point Type 5	0033-1	 	Point 12 assignment
0004-2		Point Type 5	0033-2	+	Point 12 assignment
0005-1	+	Point Type 6	0034-1	 	Point 13 assignment
0005-2		Point Type 6	0034-2	 	Point 13 assignment
0005-2	+	Point Type 7	0035-1	+	Point 14 assignment
0006-2		Point Type 7	0035-2		Point 14 assignment
0000-2	+	Point Type 8	0035-2	-	Point 14 assignment
			0036-2	 	
0007-2 0008-1	+	Point Type 8	0036-2	+	Point 15 assignment
0008-1		Alarm Output Alarm Output	0037-1	+	Point 16 assignment Point 16 assignment
	 		0037-2	+	
0009-1		Programmable Output 1 Programmable Output 1	0038-1	+	Point 17 assignment Point 17 assignment
			0038-2	- 	
0010-1		Programmable Output 2		-	Point 18 assignment
0010-2		Programmable Output 2	0039-2	 	Point 18 assignment
0011-1		General Control	0040-1	ļ	Point 19 assignment
0011-2		Point restore	0040-2	ļ	Point 19 assignment
0012-1		Partition Control	0041-1		Point 20 assignment
0012-2		Partition Control	0041-2		Point 20 assignment
0013-1		Partition Control	0042-1	4	Point 21 assignment
0013-2		Partition Control	0042-2	<u> </u>	Point 21 assignment
0014-1		Partition Control	0043-1		Point 22 assignment
0014-2		Partition Control	0043-2		Point 22 assignment
0015-1	_	Partition Control	0044-1		Point 23 assignment
0015-2		Partition Control	0044-2		Point 23 assignment
0016-1		Keypad 1	0045-1	1	Point 24 assignment
0016-2		Keypad 2	0045-2	1	Point 24 assignment
0017-1		Keypad 3	0046-1		Point 25 assignment
0017-2		Keypad 4	0046-2		Point 25 assignment
0018-1		Keypad 5	0047-1		Point 26 assignment
0018-2		Keypad 6	0047-2		Point 26 assignment
0019-1		Keypad 7	0048-1		Point 27 assignment
0019-2		Keypad 8	0048-2		Point 27 assignment
0022-1		Point 1 assignment	0049-1		Point 28 assignment
0022-2		Point 1 assignment	0049-2		Point 28 assignment
0023-1		Point 2 assignment	0050-1		Point 29 assignment
0023-2		Point 2 assignment	0050-2		Point 29 assignment
0024-1		Point 3 assignment	0051-1		Point 30 assignment
0024-2		Point 3 assignment	0051-2		Point 30 assignment
0025-1		Point 4 assignment	0052-1		Point 31 assignment
0025-2		Point 4 assignment	0052-2		Point 31 assignment
0026-1		Point 5 assignment	0053-1		Point 32 assignment
0026-2		Point 5 assignment	0053-2		Point 32 assignment
0027-1	1	Point 6 assignment	0054-1		Point 33 assignment
0027-2		Point 6 assignment	0054-2		Point 33 assignment
0028-1		Point 7 assignment	0055-1		Point 34 assignment
0028-2	1	Point 7 assignment	0055-2		Point 34 assignment
		1. Jan Googianoil	, , , , , , , , , , , , , , , , , , , ,		i

PA	Value Definition	PA	Value Definition
0056-1	Point 35 assignment	0083-1	Point 62 assignment
0056-2	Point 35 assignment	0083-2	Point 62 assignment
0057-1	Point 36 assignment	0084-1	Point 63 assignment
0057-2	Point 36 assignment	0084-2	Point 63 assignment
0058-1	Point 37 assignment	0085-1	Point 64 assignment
0058-2	Point 37 assignment	0085-2	Point 64 assignment
0059-1	Point 38 assignment	0150-1	Alpha for point 1
0059-2	Point 38 assignment	0150-2	Alpha for point 1
0060-1	Point 39 assignment	0151-1	Alpha for point 1
0060-2	Point 39 assignment	0151-2	Alpha for point 1
0061-1	Point 40 assignment	0152-1	Alpha for point 1
0061-2	Point 40 assignment	0152-2	Alpha for point 1
0062-1	Point 41 assignment	0153-1	Alpha for point 2
0062-2	Point 41 assignment	0153-2	Alpha for point 2
0063-1	Point 42 assignment	0154-1	Alpha for point 2
0063-1	Point 42 assignment	0154-2	Alpha for point 2
0064-1	Point 43 assignment	0155-1	Alpha for point 2
0064-2	Point 43 assignment	0155-2	Alpha for point 2
0065-1	Point 44 assignment	0156-1	Alpha for point 3
0065-2	Point 44 assignment	0156-2	Alpha for point 3
0066-1	Point 45 assignment	0157-1	Alpha for point 3
0066-2	Point 45 assignment	0157-2	Alpha for point 3
0067-1	Point 46 assignment	0158-1	Alpha for point 3
0067-2	Point 46 assignment	0158-2	Alpha for point 3
0068-1	Point 47 assignment	0159-1	Alpha for point 4
0068-2	Point 47 assignment	0159-2	Alpha for point 4
0069-1	Point 48 assignment	0160-1	Alpha for point 4
0069-2	Point 48 assignment	0160-2	Alpha for point 4
0070-1	Point 49 assignment	0161-1	Alpha for point 4
0070-2	Point 49 assignment	0161-2	Alpha for point 4
0071-1	Point 50 assignment	0162-1	Alpha for point 5
0071-2	Point 50 assignment	0162-2	Alpha for point 5
0072-1	Point 51 assignment	0163-1	Alpha for point 5
0072-2	Point 51 assignment	0163-2	Alpha for point 5
0073-1	Point 52 assignment	0164-1	Alpha for point 5
0073-2	Point 52 assignment	0164-2	Alpha for point 5
0074-1	Point 53 assignment	0165-1	Alpha for point 6
0074-2	Point 53 assignment	0165-2	Alpha for point 6
0075-1	Point 54 assignment	0166-1	Alpha for point 6
0075-2	Point 54 assignment	0166-2	Alpha for point 6
0076-1	Point 55 assignment	0167-1	Alpha for point 6
0076-2	Point 55 assignment	0167-2	Alpha for point 6
0077-1	Point 56 assignment	0168-1	Alpha for point 7
0077-2	Point 56 assignment	0168-2	Alpha for point 7
0078-1	Point 57 assignment	0169-1	Alpha for point 7
0078-2	Point 57 assignment	0169-2	Alpha for point 7
0079-1	Point 58 assignment	0170-1	Alpha for point 7
0079-2	Point 58 assignment	0170-2	Alpha for point 7
0080-1	Point 59 assignment	0171-1	Alpha for point 8
0080-2	Point 59 assignment	0171-2	Alpha for point 8
0081-1	Point 60 assignment	0172-1	Alpha for point 8
0081-2	Point 60 assignment	0172-2	Alpha for point 8
0082-1	Point 61 assignment	0173-1	Alpha for point 8
0082-2	Point 61 assignment	0173-2	Alpha for point 8

PA	Value Definition	PA	Value Definition
0174-1	Alpha for point 9	0201-1	Alpha for point 18
0174-2	Alpha for point 9	0201-2	Alpha for point 18
0175-1	Alpha for point 9	0202-1	Alpha for point 18
0175-2	Alpha for point 9	0202-2	Alpha for point 18
0176-1	Alpha for point 9	0203-1	Alpha for point 18
0176-2	Alpha for point 9	0203-2	Alpha for point 18
0177-1	Alpha for point 10	0204-1	Alpha for point 19
0177-2	Alpha for point 10	0204-2	Alpha for point 19
0178-1	Alpha for point 10	0205-1	Alpha for point 19
0178-2	Alpha for point 10	0205-2	Alpha for point 19
0179-1	Alpha for point 10	0206-1	Alpha for point 19
0179-2	Alpha for point 10	0206-2	Alpha for point 19
0180-1	Alpha for point 11	0207-1	Alpha for point 20
0180-2	Alpha for point 11	0207-2	Alpha for point 20
0181-1	Alpha for point 11	0208-1	Alpha for point 20
0181-2	Alpha for point 11	0208-2	Alpha for point 20
0182-1	Alpha for point 11	0209-1	Alpha for point 20
0182-2	Alpha for point 11	0209-2	Alpha for point 20
0183-1	Alpha for point 12	0210-1	Alpha for point 21
0183-2	Alpha for point 12	0210-2	Alpha for point 21
0184-1	Alpha for point 12	0211-1	Alpha for point 21
0184-2	Alpha for point 12	0211-2	Alpha for point 21
0185-1	. Alpha for point 12	0212-1	Alpha for point 21
0185-2	Alpha for point 12	0212-2	Alpha for point 21
0186-1	Alpha for point 13	0213-1	Alpha for point 22
0186-2	Alpha for point 13	0213-2	Alpha for point 22
0187-1	Alpha for point 13	0214-1	Alpha for point 22
0187-2	Alpha for point 13	0214-2	Alpha for point 22
0188-1	Alpha for point 13	0215-1	Alpha for point 22
0188-2	Alpha for point 13	0215-2	Alpha for point 22
0189-1	Alpha for point 14	0216-1	Alpha for point 23
0189-2	Alpha for point 14	0216-2	Alpha for point 23
0190-1	Alpha for point 14	0217-1	Alpha for point 23
0190-2	Alpha for point 14	0217-2	Alpha for point 23
0191-1	Alpha for point 14	0218-1	Alpha for point 23
0191-2	Alpha for point 14	0218-2	Alpha for point 23
0192-1	Alpha for point 15	0219-1	Alpha for point 24
0192-2	Alpha for point 15	0219-2	Alpha for point 24
0193-1	Alpha for point 15	0220-1	Alpha for point 24
0193-2	Alpha for point 15	0220-2	Alpha for point 24
0194-1	Alpha for point 15	0221-1	Alpha for point 24
0194-2	Alpha for point 15	0221-2	Alpha for point 24
0195-1	Alpha for point 16	0222-1	Alpha for point 25
0195-2	Alpha for point 16	0222-2	Alpha for point 25
0196-1	Alpha for point 16	0223-1	Alpha for point 25
0196-2	Alpha for point 16	0223-2	Alpha for point 25
0197-1	Alpha for point 16	0224-1	Alpha for point 25
0197-2	Alpha for point 16	0224-2	Alpha for point 25
0198-1	Alpha for point 17	0225-1	Alpha for point 26
0198-2	Alpha for point 17	0225-2	Alpha for point 26
0199-1	Alpha for point 17	0226-1	Alpha for point 26
0199-2	Alpha for point 17	0226-2	Alpha for point 26
0200-1	Alpha for point 17	0227-1	Alpha for point 26
0200-2	Alpha for point 17	0227-2	Alpha for point 26

PA	Value Definition	PA	Value Definition
0228-1	Alpha for point 27	0255-1	Alpha for point 36
0228-2	Alpha for point 27	0255-2	Alpha for point 36
0229-1	Alpha for point 27	0256-1	Alpha for point 36
0229-2	Alpha for point 27	0256-2	Alpha for point 36
0230-1	Alpha for point 27	0257-1	Alpha for point 36
0230-2	Alpha for point 27	0257-2	Alpha for point 36
0231-1	Alpha for point 28	0258-1	Alpha for point 37
0231-2	Alpha for point 28	0258-2	Alpha for point 37
0232-1	Alpha for point 28	0259-1	Alpha for point 37
0232-2	Alpha for point 28	0259-2	Alpha for point 37
0233-1	Alpha for point 28	0260-1	Alpha for point 37
0233-2	Alpha for point 28	0260-2	Alpha for point 37
0234-1	Alpha for point 29	0261-1	Alpha for point 38
0234-2	Alpha for point 29	0261-2	Alpha for point 38
0235-1	Alpha for point 29	0262-1	Alpha for point 38
0235-2	Alpha for point 29	0262-2	Alpha for point 38
0236-1	Alpha for point 29	0263-1	Alpha for point 38
0236-2	Alpha for point 29	0263-1	Alpha for point 38
0237-1	Alpha for point 30	0264-1	Alpha for point 39
0237-1	Alpha for point 30	0264-2	Alpha for point 39
0238-1	Alpha for point 30	0265-1	Alpha for point 39
0238-2	Alpha for point 30	0265-2	Alpha for point 39
0239-1	Alpha for point 30	0266-1	Alpha for point 39
0239-2	Alpha for point 30	0266-2	Alpha for point 39
0239-2	Alpha for point 30	0267-1	Alpha for point 40
0240-2	Alpha for point 31	0267-1	Alpha for point 40
0241-1	Alpha for point 31	0268-1	Alpha for point 40
0241-2	Alpha for point 31	0268-2	Alpha for point 40
0242-1	Alpha for point 31	0269-1	Alpha for point 40
0242-2	Alpha for point 31	0269-2	Alpha for point 40
0243-1	Alpha for point 32	0270-1	Alpha for point 41
0243-2	Alpha for point 32	0270-2	Alpha for point 41
0244-1	Alpha for point 32	0271-1	Alpha for point 41
0244-2	Alpha for point 32	0271-2	Alpha for point 41
0245-1	Alpha for point 32	0271-2	Alpha for point 41
0245-2	Alpha for point 32	0272-2	Alpha for point 41
0246-1	Alpha for point 33	0273-1	Alpha for point 41
0246-2	Alpha for point 33	0273-2	Alpha for point 42
0247-1	Alpha for point 33	0274-1	Alpha for point 42
0247-2	Alpha for point 33	0274-2	Alpha for point 42
0248-1	Alpha for point 33	0275-1	Alpha for point 42
0248-2	Alpha for point 33	0275-2	Alpha for point 42
0249-1	Alpha for point 34	0276-1	Alpha for point 42
0249-2	Alpha for point 34	0276-2	Alpha for point 43
0250-1	Alpha for point 34	0277-1	Alpha for point 43
0250-2	Alpha for point 34	0277-2	Alpha for point 43
0251-1	Alpha for point 34	0277-2	Alpha for point 43
0251-2	Alpha for point 34	0278-2	Alpha for point 43
0252-1	Alpha for point 35	0279-1	Alpha for point 43
0252-1	Alpha for point 35	0279-2	Alpha for point 44
0252-2	Alpha for point 35	0279-2	Alpha for point 44
0253-1	Alpha for point 35	0280-1	Alpha for point 44
0254-1	Alpha for point 35	0281-1	Alpha for point 44
0254-1	Alpha for point 35		
0234-2	I Alpha for politic 35	0281-2	Alpha for point 44

PA	Value Definition	PA	Value Definition
0282-1	Alpha for point 45	0309-1	Alpha for point 54
0282-2	Alpha for point 45	0309-2	Alpha for point 54
0283-1	Alpha for point 45	0310-1	Alpha for point 54
0283-2	Alpha for point 45	0310-2	Alpha for point 54
0284-1	Alpha for point 45	0311-1	Alpha for point 54
0284-2	Alpha for point 45	0311-2	Alpha for point 54
0285-1	Alpha for point 46	0312-1	Alpha for point 55
0285-2	Alpha for point 46	0312-2	Alpha for point 55
0286-1	Alpha for point 46	0313-1	Alpha for point 55
0286-2	Alpha for point 46	0313-2	Alpha for point 55
0287-1	Alpha for point 46	0314-1	Alpha for point 55
0287-2	Alpha for point 46	0314-2	Alpha for point 55
0288-1	Alpha for point 47	0315-1	Alpha for point 56
0288-2	Alpha for point 47	0315-2	Alpha for point 56
0289-1	Alpha for point 47	0316-1	Alpha for point 56
0289-2	Alpha for point 47	0316-2	Alpha for point 56
0290-1	Alpha for point 47	0317-1	Alpha for point 56
0290-2	Alpha for point 47	0317-2	Alpha for point 56
0291-1	Alpha for point 48	0318-1	Alpha for point 57
0291-2	Alpha for point 48	0318-2	Alpha for point 57
0292-1	Alpha for point 48	0319-1	Alpha for point 57
0292-2	Alpha for point 48	0319-2	Alpha for point 57
0293-1	Alpha for point 48	0320-1	Alpha for point 57
0293-2	Alpha for point 48	0320-2	Alpha for point 57
0294-1	Alpha for point 49	0321-1	Alpha for point 58
0294-2	Alpha for point 49	0321-2	Alpha for point 58
0295-1	Alpha for point 49	0322-1	Alpha for point 58
0295-2	Alpha for point 49	0322-2	Alpha for point 58
0296-1	Alpha for point 49	0323-1	Alpha for point 58
0296-2	Alpha for point 49	0323-2	Alpha for point 58
0297-1	Alpha for point 50	0324-1	Alpha for point 59
0297-2	Alpha for point 50	0324-2	Alpha for point 59
0298-1	Alpha for point 50	0325-1	Alpha for point 59
0298-2	Alpha for point 50	0325-2	Alpha for point 59
0299-1	Alpha for point 50	0326-1	Alpha for point 59
0299-2	Alpha for point 50	0326-2	Alpha for point 59
0300-1	Alpha for point 51	0327-1	Alpha for point 60
0300-2	Alpha for point 51	0327-2	Alpha for point 60
0301-1	Alpha for point 51	0328-1	Alpha for point 60
0301-2	Alpha for point 51	0328-2	Alpha for point 60
0302-1	Alpha for point 51	0329-1	Alpha for point 60
0302-2	Alpha for point 51	0329-2	Alpha for point 60
0303-1	Alpha for point 52	0330-1	Alpha for point 61
0303-2	Alpha for point 52	0330-2	Alpha for point 61
0304-1	Alpha for point 52	0331-1	Alpha for point 61
0304-2	Alpha for point 52	0331-2	Alpha for point 61
0305-1	Alpha for point 52	0332-1	Alpha for point 61
0305-2	Alpha for point 52	0332-2	Alpha for point 61
0306-1	Alpha for point 53	0333-1	Alpha for point 62
0306-2	Alpha for point 53	0333-2	Alpha for point 62
0307-1	Alpha for point 53	0334-1	Alpha for point 62
0307-2	Alpha for point 53	0334-2	Alpha for point 62
0307-2	Alpha for point 53	0335-1	Alpha for point 62
0308-2	Alpha for point 53	0335-2	Alpha for point 62
DS7400 I	Installation Instructions C	opyright © 19	993 Page 59

PA	Value	Definition	PA	Value	Definition
	·				
0336-1		Alpha for point 63	0555-1		Custom Word 2
0336-2	ļ	Alpha for point 63	0555-2		Custom Word 2
0337-1		Alpha for point 63	0556-1		Custom Word 2
0337-2		Alpha for point 63	0556-2		Custom Word 2
0338-1		Alpha for point 63	0557-1		Custom Word 2
0338-2	<u> </u>	Alpha for point 63	0557-2	<u> </u>	Custom Word 2
0339-1		Alpha for point 64	0558-1	<u> </u>	Custom Word 2
0339-2		Alpha for point 64	0558-2		Custom Word 2
0340-1		Alpha for point 64	0559-1		Custom Word 2
0340-2		Alpha for point 64	0559-2		Custom Word 2
0341-1	1	Alpha for point 64	0560-1		Custom Word 2
0341-2		Alpha for point 64	0560-2		Custom Word 2
0534-1		Alpha for Partition 1	0561-1		Custom Word 2
0534-2		Alpha for Partition 1	0561-2		Custom Word 2
0535-1		Alpha for Partition 1	0562-1		Custom Word 3
0535-2		Alpha for Partition 1	0562-2		Custom Word 3
0536-1		Alpha for Partition 1	0563-1		Custom Word 3
0536-2		Alpha for Partition 1	0563-2		Custom Word 3
0537-1		Alpha for Partition 2	0564-1		Custom Word 3
0537-2		Alpha for Partition 2	0564-2		Custom Word 3
0538-1		Alpha for Partition 2	0565-1		Custom Word 3
0538-2		Alpha for Partition 2	0565-2		Custom Word 3
0539-1		Alpha for Partition 2	0566-1		Custom Word 3
0539-2		Alpha for Partition 2	0566-2		Custom Word 3
0540-1		Alpha for Partition 3	0567-1		Custom Word 3
0540-2		Alpha for Partition 3	0567-2		Custom Word 3
0541-1		Alpha for Partition 3	0568-1		Custom Word 3
0541-2		Alpha for Partition 3	0568-2		Custom Word 3
0542-1		Alpha for Partition 3	0569-1		Custom Word 3
0542-2		Alpha for Partition 3	0569-2		Custom Word 3
0543-1		Alpha for Partition 4	0570-1		Custom Word 4
0543-2		Alpha for Partition 4	0570-2		Custom Word 4
0544-1		Alpha for Partition 4	0571-1		Custom Word 4
0544-2		Alpha for Partition 4	0571-2		Custom Word 4
0545-1		Alpha for Partition 4	0572-1		Custom Word 4
0545-2		Alpha for Partition 4	0572-2		Custom Word 4
0546-1		Custom Word 1	0573-1		Custom Word 4
0546-2	4.	Custom Word 1	0573-2		Custom Word 4
0547-1	17	Custom Word 1	0574-1		Custom Word 4
0547-2		Custom Word 1	0574-2		Custom Word 4
0548-1		Custom Word 1	0575-1	T. T	Custom Word 4
0548-2		Custom Word 1	0575-2		Custom Word 4
0549-1	T	Custom Word 1	0576-1		Custom Word 4
0549-2		Custom Word 1	0576-2		Custom Word 4
0550-1		Custom Word 1	0577-1		Custom Word 4
0550-2		Custom Word 1	0577-2	1	Custom Word 4
0551-1		Custom Word 1	0578-1		Custom Word 5
0551-2		Custom Word 1	0578-2		Custom Word 5
0552-1		Custom Word 1	0579-1		Custom Word 5
0552-2		Custom Word 1	0579-2		Custom Word 5
0553-1		Custom Word 1	0580-1	1	Custom Word 5
0553-2		Custom Word 1	0580-2	1	Custom Word 5
0554-1		Custom Word 2	0581-1		Custom Word 5
0554-2		Custom Word 2	0581-2	1	Custom Word 5
			10001 E	1	T GAGCOTT FFOR G

PA	Value	Definition	PA	Value	Definition
0582-1	1	Custom Word 5	0609-1	T	Custom Word 8
0582-2	 	Custom Word 5	0609-2		Custom Word 8
0583-1	 	Custom Word 5	0610-1		Custom Word 9
0583-2		Custom Word 5	0610-2		Custom Word 9
0584-1		Custom Word 5	0611-1		Custom Word 9
0584-2	 	Custom Word 5	0611-2	1	Custom Word 9
0585-1	 	Custom Word 5	0612-1	1	Custom Word 9
0585-2		Custom Word 5	0612-2	+	Custom Word 9
0586-1	 	Custom Word 6	0613-1	 	Custom Word 9
0586-2	 	Custom Word 6	0613-2	 	Custom Word 9
0587-1	-	Custom Word 6	0614-1	<u> </u>	Custom Word 9
0587-2	 	Custom Word 6	0614-2	<u> </u>	Custom Word 9
0588-1	 	Custom Word 6	0615-1	 	Custom Word 9
0588-2	 	Custom Word 6	0615-2		Custom Word 9
0589-1	 	Custom Word 6	0616-1	1	Custom Word 9
0589-1	+	Custom Word 6	0616-2	1	Custom Word 9
0589-2	 	Custom Word 6	0617-1	 	Custom Word 9
0590-1	 	Custom Word 6	0617-1	 	Custom Word 9
0590-2	 	Custom Word 6	0617-2	 	Custom Word 10
0591-1	 	Custom Word 6	0618-2	 	Custom Word 10
0591-2	-	Custom Word 6	0619-1	 	Custom Word 10
0592-1		Custom Word 6	0619-2	 	Custom Word 10
0592-2	 	Custom Word 6	0620-1	+	Custom Word 10
0593-1	 	Custom Word 6	0620-2	 	Custom Word 10
0593-2	 	Custom Word 7	0621-1	 	Custom Word 10
	 	Custom Word 7	0621-2	-	Custom Word 10
0594-2		Custom Word 7	0622-1	 	Custom Word 10
0595-1		Custom Word 7	0622-1	 	Custom Word 10
0595-2	 	Custom Word 7	0623-1	 	Custom Word 10
0596-1	 		0623-1	+	
0596-2 0597-1	1	Custom Word 7	0623-2	+	Custom Word 10
	 	Custom Word 7 Custom Word 7	0624-2	 	Custom Word 10
0597-2	 				Custom Word 10
0598-1	-	Custom Word 7	0625-1	-	Custom Word 10
0598-2	 	Custom Word 7	0625-2	<u> </u>	Custom Word 10
0599-1	 	Custom Word 7	0629-1	 	Commercial Fire
0599-2	 	Custom Word 7	0629-2	ļ	Commercial Fire
0600-1	 	Custom Word 7	0630-1	 	Keypad Fire
0600-2	-	Custom Word 7	0630-2	 	Keypad Emergency
0601-1	 	Custom Word 7	0631-1	 	Keypad Panic
0601-2		Custom Word 7	0631-1	0	Must be 0
0602-1		Custom Word 8	0632-1	 	Command 4 Arming
0602-2	 	Custom Word 8	0632-2	 	Command 4 Arming
0603-1		Custom Word 8	0633-1	_	Open/Close report control
0603-2	 	Custom Word 8	0633-2	 	Open/Close report routing
0604-1	ļ	Custom Word 8	0634-1		Pnt. alr, restore and trb rout
0604-2	-	Custom Word 8	0634-2	 	System report routing
0605-1	1	Custom Word 8	0635-1	<u> </u>	Phone number gen control
0605-2	 	Custom Word 8	0635-2		Phone number gen control
0606-1	<u> </u>	Custom Word 8	0636-1		Answer ring count (armed)
0606-2		Custom Word 8	0636-2		Answer ring cnt. (disarmed)
0607-1		Custom Word 8	0637-1		Max. points to force arm
0607-2		Custom Word 8	0637-2	0	Must be 0
0608-1		Custom Word 8	0638-1		Entry delay 1
0608-2		Custom Word 8	0638-2		Entry delay 1

PA	Value Definition	PA	Value Definition
0639-1	Entry delay 2	0677-1	Point Type 4 Trouble
0639-2	Entry delay 2	0677-2	Point Type 4 Trouble ext.
0640-1	Exit Delay	0678-1	Point Type 5 Trouble
0640-2	Exit Delay	0678-2	Point Type 5 Trouble ext.
0641-1	Fire Alarm Cut off	0679-1	Point Type 6 Trouble
0641-2	Fire Alarm Cut off	0679-2	Point Type 6 Trouble ext.
0642-1	Burg Alarm Cut off	0680-1	Point Type 7 Trouble
0642-2	Burg Alarm Cut off	0680-2	Point Type 7 Trouble ext.
0654-1	Keypad Fire Report	0681-1	Point Type 8 Trouble
0654-2	Keypad Fire Report ext.	0681-2	Point Type 8 Trouble ext.
0655-1	Keypad Fire Restore	0682-1	Open Report
0655-2	Keypad Fire Restore ext.	0682-2	Open Report extended
0656-1	Point Type 1 Alarm report	0683-1	Close Report
0656-2	Point Type 1 Alarm rpt. ext.	0683-2	Close Report extended
0657-1	Point Type 2 Alarm report	0684-1	Duress Report
0657-2	Point Type 2 Alarm rpt. ext.	0684-2	Duress Report extended
0658-1	Point Type 3 Alarm report	0685-1	Partial Close Report
0658-2	Point Type 3 Alarm rpt. ext.	0685-2	Partial Close Report extend
0659-1	Point Type 4 Alarm report	0686-1	1st open after alarm rpt
0659-2	Point Type 4 Alarm rpt. ext.	0686-2	1st open after alarm rpt. ext.
0660-1	Point Type 5 Alarm report	0687-1	Low battery Report
0660-2	Point Type 5 Alarm rpt. ext.	0687-2	Low Battery Report extend
0661-1	Point Type 6 Alarm report	0688-1	Battery restoral report
0661-2	Point Type 6 Alarm rpt. ext.	0688-2	Battery restoral report ext.
0662-1	Point Type 7 Alarm report	0689-1	AC Fail report
0662-2	Point Type 7 Alarm rpt. ext.	0689-2	AC Fail report extended
0663-1	Point Type 8 Alarm report	0690-1	AC Restore report
0663-2	Point Type 8 Alarm rpt. ext.	0690-2	AC Restore report extended
0664-1	Keypad Emergency Report	0691-1	Comm test report
0664-2	Keypad Emergency Rpt. ext	0691-2	Comm test report ext.
0665-1	Keypad Panic Report	0692-1	Remote program OK report
0665-2	Keypad Panic Report ext.	0692-2	Remote program OK extend
0666-1	Point Type Restore 1	0693-1	RP not OK report
0666-2	Point Type Restore 1 ext.	0693-2	RP not OK report extended
0667-1	Point Type Restore 2	0694-1	Local program OK report
0667-2	Point Type Restore 2 ext.	0694-2	Local program OK extend
0668-1	Point Type Restore 3	0695-1	LP not OK report
0668-2	Point Type Restore 3 ext.	0695-2	LP not OK report extended
0669-1	Point Type Restore 4	0696-1	System Trouble report
0669-2	Point Type Restore 4 ext.	0696-2	System Trouble report ext.
0670-1	Point Type Restore 5	0697-1	System Trouble restore
0670-2	Point Type Restore 5 ext.	0697-2	System Trouble restore ext.
0671-1	Point Type Restore 6	0698-1	Late to Open report
0671-2	Point Type Restore 6 ext.	0698-2	Late to Open report ext.
0672-1	Point Type Restore 7	0699-1	Late to Close report
0672-2	Point Type Restore 7 ext.	0699-2	Late to Close report ext.
0673-1	Point Type Restore 8	0704-1	Account Code 1
0673-2	Point Type Restore 8 ext.	0704-2	Account Code 1
0674-1	Point Type 1 Trouble	0704-3	Account Code 1
0674-2	Point Type 1 Trouble ext.	0704-4	Account Code 1
0675-1	Point Type 2 Trouble	0706-1	Account Code 2
0675-2	Point Type 2 Trouble ext.	0706-2	Account Code 2
		0.700	
0676-1 0676-2	Point Type 3 Trouble Point Type 3 Trouble ext.	0706-3	Account Code 2

PA	Value	Definition	РА	Value	Definition
		I de la Carla Carl	110000		I Dhana a sanbard
0708-1	ļ	Account Code 3	1980-8		Phone number 1
0708-2	}	Account Code 3	1980-9	 	Phone number 1
0708-3	<u> </u>	Account Code 3	1980-10	 	Phone number 1
0708-4		Account Code 3	1980-11	<u> </u>	Phone number 1
0710-1	<u> </u>	Account Code 4	1980-12	<u> </u>	Phone number 1
0710-2		Account Code 4	1980-13		Phone number 1
0710-3		Account Code 4	1980-14		Phone number 1
0710-4		Account Code 4	1980-15	ļ	Phone number 1
0712-1		Phone #1 Format	1980-16	ļ	Phone number 1
0712-2	<u> </u>	Phone #1 Format	1980-17	ļ	Phone number 1
0713-1		Phone #2 Format	1980-18	<u> </u>	Phone number 1
0713-2		Phone #2 Format	1980-19		Phone number 1
0714-1		Programmer's Code	1980-20		Phone number 1
0714-2		Programmer's Code	1990-1		Phone number 2
0714-3		Programmer's Code	1990-2		Phone number 2
0714-4		Programmer's Code	1990-3	<u> </u>	Phone number 2
0716-1		PIN # 1	1990-4	<u> </u>	Phone number 2
0716-2		PIN # 1	1990-5		Phone number 2
0716-3		PIN # 1	1990-6		Phone number 2
0716-4		PIN # 1	1990-7		Phone number 2
0866-1		Octal Relay #1-1 - digit 1	1990-8	<u> </u>	Phone number 2
0866-2		Octal Relay #1-1 - digit 2	1990-9		Phone number 2
0867-1		Octal Relay #1-2 - digit 1	1990-10		Phone number 2
0867-2		Octal Relay #1-2 - digit 2	1990-11		Phone number 2
0868-1		Octal Relay #1-3 - digit 1	1990-12		Phone number 2
0868-2		Octal Relay #1-3 - digit 2	1990-13		Phone number 2
0869-1		Octal Relay #1-4 - digit 1	1990-14		Phone number 2
0869-2		Octal Relay #1-4 - digit 2	1990-15		Phone number 2
0870-1		Octal Relay #1-5 - digit 1	1990-16		Phone number 2
0870-2		Octal Relay #1-5 - digit 2	1990-17		Phone number 2
0871-1		Octal Relay #1-6 - digit 1	1990-18		Phone number 2
0871-2		Octal Relay #1-6 - digit 2	1990-19		Phone number 2
0872-1		Octal Relay #1-7 - digit 1	1990-20		Phone number 2
0872-2		Octal Relay #1-7 - digit 2	2000-1		Phone number 3
0873-1	T	Octal Relay #1-8 - digit 1	2000-2		Phone number 3
0873-2		Octal Relay #1-8 - digit 2	2000-3		Phone number 3
0927-1		Bell/Phone Line Monitor	2000-4		Phone number 3
1975-1		Auto test report time Hour	2000-5		Phone number 3
1975-2	1	Auto test report time Hour	2000-6		Phone number 3
1976-1		Auto test report time Minute	2000-7	T	Phone number 3
1976-2	1	Auto test report time Minute	2000-8	1	Phone number 3
1977-1		Rem. Prog. callout Hour	2000-9	1	Phone number 3
1977-2		Rem. Prog. callout Hour	2000-10	1	Phone number 3
1978-1		Rem. Prog. callout Minute	2000-11		Phone number 3
1978-2	1	Rem. Prog. callout Minute	2000-12		Phone number 3
1979-1	†	Auto test report interval	2000-13		Phone number 3
1979-2	1	Rem. Prog. callout interval	2000-14		Phone number 3
1980-1	 	Phone number 1	2000-15		Phone number 3
1980-2	 	Phone number 1	2000-16		Phone number 3
1980-3		Phone number 1	2000-17		Phone number 3
1980-4	 	Phone number 1	2000-18		Phone number 3
1980-5	╅	Phone number 1	2000-19		Phone number 3
1980-6	+	Phone number 1	2000-19		Phone number 3
1980-7	 	Phone number 1	2010-1	+	Default EEProm
1900-7	1	Truotte trattinet t	1 [2010-1		1 Delauit LEI TOITI

P A	Value	Definition		PA	Value	Definition
2010-2	I	Default EEProm				
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