
Content

Section 1

Introduction 1-1

- 1.1 Overview of Basic System 1-1
 - 1.1.1 Hardware Features 1-1
 - 1.1.2 Software Features 1-2
- 1.2 About this Manual 1-2
 - 1.2.1 Terms Used in this Manual 1-2
- 1.3 Compatible Products 1-3
- 1.4 How to Contact Silent Knight 1-4

Section 2

Agency Listings, Approvals, and Requirements 2-1

- 2.1 Federal Communications Commission (FCC) 2-1
- 2.2 Underwriters Laboratories (UL) 2-2
 - 2.2.1 Requirements for All Installations 2-2
 - 2.2.2 Requirements for Central Station Fire Alarm Systems 2-2
 - 2.2.3 Requirements for Local Protected Fire Alarm Systems 2-2
 - 2.2.4 Requirements for Remote Station Protected Fire Alarm Systems - Digital Alarm Communicator Transmitter (DACT) 2-2

Section 3

Before You Begin Installing 3-1

- 3.1 What's in the Box? 3-1
- 3.2 Environmental Specifications 3-1
- 3.3 Electrical Specifications 3-2
- 3.4 Wiring Specifications 3-3
- 3.5 Board Assembly Diagram 3-5
- 3.6 Calculating Current Draw and Standby Battery 3-5
 - 3.6.1 Worksheet Requirements 3-5
 - Filling in the Current Draw Worksheet, Table 3-2 (Section 3.6.2) 3-5
 - 3.6.2 Current Draw Worksheet 3-6
 - 3.6.2.1 Maximum Battery Standby Load 3-8
- 3.7 Installation Tasks Overview 3-9

Section 4

Control Panel Installation 4-1

- 4.1 Mounting the Control Panel Cabinet 4-1
 - 4.1.1 Removing the 5820XL Assembly from the Housing 4-1
- 4.2 AC Connection 4-2
- 4.3 Battery Connection 4-3

- 4.3.1 AB-33 Accessory Cabinet 4-4
 - 4.3.1.1 Installing the AB-33 Accessory Cabinet and Batteries 4-4
- 4.4 SBUS Wiring 4-6
 - 4.4.1 Calculating Wiring distance for SBUS modules 4-6
 - Wiring Distance calculation example: 4-8
 - 4.4.2 Wiring Configurations 4-9
- 4.5 Remote Annunciator 5860 Installation 4-10
 - 4.5.1 Mounting the 5860 4-11
 - 4.5.1.1 Flush Mounting 4-12
 - Flush Mounting with an Electrical Box 4-13
 - Flush Mounting Steps 4-13
 - 4.5.1.2 Surface Mounting 4-14
 - 4.5.2 Model 5860 Connection to the Panel 4-15
- 4.6 5815XL Installation 4-16
 - 4.6.1 5815XL Connection to the Panel 4-17
- 4.7 5824 Serial/Parallel Interface Installation 4-18
 - 4.7.1 Selecting 5824 Options 4-19
 - Printer and Output Port Options 4-20
- 4.8 5880 LED Driver Module 4-21
 - 4.8.1 5880 Board Layout 4-21
 - 4.8.2 FACP Connection 4-22
 - 4.8.3 LED Wiring 4-23
 - 4.8.4 Dry Contact Wiring 4-24
- 4.9 5865-3 / 5865-4 LED Annunciator Installation 4-25
 - 4.9.1 FACP Connection 4-26
 - 4.9.2 5865 Mounting 4-27
- 4.10 Configuring Modules 4-28
 - 4.10.1 Assigning Module IDs 4-28
- 4.11 Telephone Connection 4-29
 - 4.11.1 Ground Start Relay (Model 5211) 4-29
- 4.12 Flexputs™ I/O Circuits 4-30
 - 4.12.1 Conventional Notification Appliance 4-30
 - 4.12.1.1 Class B Notification Wiring 4-30
 - 4.12.1.2 Class A Notification Wiring 4-31
 - 4.12.2 Conventional Input Switch Circuits 4-33
 - 4.12.2.1 Class B Inputs 4-33
 - 4.12.2.2 Class A Inputs 4-34
 - 4.12.3 Installing 2-Wire Smoke Detectors 4-35
 - 4.12.3.1 Installing 2-Wire Class B Smoke Detectors 4-35
 - 4.12.3.2 Installing 2-Wire Class A Smoke Detector 4-36
 - 4.12.4 Installing 4-Wire Smoke Detectors 4-37
 - 4.12.4.1 Installing a Class B 4-Wire Smoke Detector 4-37
 - 4.12.4.2 Installing 4-Wire Class A Smoke Detectors 4-38
 - 4.12.5 Auxiliary Power Installation 4-39
 - 4.12.5.1 Door Holder Power 4-39
 - 4.12.5.2 Constant Power 4-39
 - 4.12.5.3 Resettable Power 4-40
- 4.13 On-Board Relays (Conventional) 4-40
 - 4.13.1 Trouble Relay 4-40
 - 4.13.2 Programmable Relays 4-40
- 4.14 Remote Station Applications 4-41
 - 4.14.1 Keltron Model 3158 Installation 4-41
 - 4.14.2 City Box Connection Using the 5220 Module 4-42
 - 4.14.3 NFPA 72 Polarity Reversal 4-43

4.14.3.1 Using the 5220 Module	4-43
4.14.4 Using the SD500-ARM Addressable Relay Module	4-44
4.14.5 Using a MR-201/T Control Relay From Air Products	4-45

Section 5

SLC Device Installation 5-1

5.1 Types of SLC Devices	5-1
5.2 Maximum Number of Devices	5-2
5.3 Wiring Requirements for SLC Devices	5-2
5.3.1 Wiring 5815XL in Style 4 (Class B) Configuration	5-2
5.3.2 Wiring 5815XL in Style 6 & 7 (Class A) Configuration	5-4
5.4 Heat and Smoke Detector Installation	5-4
5.4.1 Wiring	5-4
5.5 Duct Detector Installation	5-6
5.6 Input Monitor Module (SD500-AIM)	5-7
5.7 Mini Input Module (SD500-MIM)	5-8
5.8 Relay Module Installation	5-9
5.8.1 Electrical Specifications	5-9
Relay Ratings	5-9
5.8.2 Wiring	5-9
5.9 SD500-ANM Installation Instructions	5-10
5.9.1 SD500-ANM Specification	5-10
5.9.2 Wiring the SD500-ANM	5-11
5.9.2.1 Wiring the SD500-ANM to the 5815XL	5-11
5.9.3 Class B Notification Configuration	5-11
5.9.4 Class A Notification Configuration	5-12
5.9.5 Configuring Flexput™ Circuits for Auxiliary Power	5-12
5.10 SLC Device Addressing	5-13
5.10.1 EEPROM Addressing	5-13
5.10.2 Dipswitch Addressing	5-14

Section 6

Programming Overview 6-1

6.1 JumpStart Autoprogramming	6-1
6.1.1 Input Points	6-2
6.1.2 Output Points	6-2
6.1.3 Running JumpStart	6-2
6.2 Mapping Overview	6-4
6.2.1 Input Point Mapping	6-5
6.2.2 Output Circuit Mapping	6-6
6.2.3 Zone Event Mapping	6-7
6.2.4 Mapping LED Points	6-9
6.3 SK Fire System Editor	6-10
6.4 Annunciator Programming	6-10
6.4.1 Entering / Exiting the Program Menu	6-11
To enter the Program Mode:	6-11
To Exit Program Mode:	6-11
6.4.2 Moving through the Menus	6-12
6.4.3 Selecting Options and Entering Data	6-12
6.4.4 Editing Keys	6-13
6.5 Programming Menu Quick Reference	6-14

Section 7 Programming 7-1

7.1	Modules	7-1
7.1.1	Edit Modules	7-1
7.1.1.1	Naming Modules	7-2
7.1.1.2	Module, Wiring Class	7-2
7.1.2	Adding a Module	7-2
7.1.3	Deleting a Module	7-3
7.2	Zone	7-4
7.2.1	Edit Zone	7-4
7.2.1.1	Edit Zone Name	7-4
7.2.1.2	Edit Zone Properties	7-5
	Alarm Delay Characteristics	7-6
	Heat Temperature Setting	7-7
7.2.1.3	Zone Outputs	7-7
	Mapping to Zone Events	7-7
	Example or Zone Mapping:	7-9
7.2.1.4	Cadence Patterns	7-10
7.2.2	Add Zone	7-11
7.2.3	Delete Zone	7-11
7.2.4	View Zone Points	7-12
7.3	Group	7-13
7.3.1	Edit Group	7-13
7.3.1.1	Edit Group Name	7-13
7.3.1.2	Edit Group Properties	7-14
	Latching / Non-latching Outputs	7-14
	Silencing Options	7-15
	Response with System-Wide Conditions	7-15
7.3.2	Add Group	7-16
7.3.3	Delete Group	7-16
7.3.4	View Group Points	7-17
7.3.5	Edit Output Group Templates	7-18
7.4	Point	7-19
7.4.1	Point Programming For 5815XL Module	7-19
7.4.2	Point Programming For Internal or External Power Module (5895XL) 7-22	
7.4.3	Point Programming For 5880 and 5865 Modules	7-24
7.4.3.1	Assigning a Name to a Points	7-25
7.5	System Options	7-26
7.5.1	Reporting Account	7-26
7.5.1.1	Edit Accounts	7-27
	Select Account (ID)	7-27
	Edit Account Number	7-27
	Select Reporting Format	7-28
	Events to Report	7-28
	Switch Attempts	7-28
	Fail Attempts	7-29
	Selecting Primary and Secondary Phone Lines	7-29
	Telephone Number	7-29
7.5.1.2	Auto Test Time	7-30
7.5.2	Phone Lines	7-30

7.5.2.1	Dialing Prefix	7-31
7.5.2.2	Number of Answer Rings	7-31
7.5.2.3	Dial Option (TouchTone or Pulse)	7-32
7.5.2.4	Rotary Format	7-32
7.5.2.5	Line Monitor	7-32
7.5.2.6	Ground Start Relay	7-32
7.5.2.7	Answering Machine Bypass	7-33
7.5.3	Sys. Event Outputs	7-33
7.5.3.1	Trouble Events	7-33
7.5.3.2	System Alarm Cadence	7-34
7.5.4	Miscellaneous Options	7-35
7.5.4.1	Water Flow Delay	7-36
7.5.4.2	Low AC Report Delay	7-37
7.5.4.3	Automatic Daylight Savings Adjustment	7-37
7.5.4.4	Clock Display Format (AM/PM or Military)	7-37
7.5.4.5	Change AC Line Frequency	7-37
7.5.5	Edit Banner Message	7-38
7.6	JumpStart Autoprogramming	7-39
7.7	Computer Account	7-40
7.8	Access Codes	7-41

Section 8 System Operation

8.1	Annunciator Description	8-1
8.1.1	LCD Displays	8-1
8.1.2	Banner	8-2
8.2	Key Operation	8-2
8.3	Menu System	8-2
8.3.1	User Menu	8-3
8.3.2	Installer Menu	8-3
8.3.3	Main Menu Overview (User and Installer)	8-3
8.3.4	Using the Menus	8-4
8.4	Basic Operation	8-4
8.4.1	Setting Time and Date	8-4
8.4.2	Disable / Enable a Point	8-4
8.4.3	View Event History	8-4
8.4.3.1	To clear the event history	8-5
8.4.4	Conduct a Fire Drill	8-5
8.4.5	Conduct an Indicator Test	8-5
8.4.6	Conduct a Walk Test	8-6
8.4.7	Conduct a Dialer Test	8-6
8.4.8	Silence alarms or troubles	8-6
8.4.9	Reset alarms	8-7
8.4.10	Check Detector Through Point Status	8-7
8.4.11	Change User or Installer Code	8-8
8.4.12	View Status of a Point	8-8
8.4.13	View Alarms or Troubles	8-8
8.4.14	View System Information	8-8
8.4.15	Reset dialer	8-8
8.4.16	Communicating with a Remote Computer	8-9
8.4.17	Working with a Printer	8-10
8.5	Operation Mode Behavior	8-11

Section 9

Reporting 9-1

- 9.1 Receivers Compatible with the Control Panel 9-1
- 9.2 Ademco Contact ID Dialer Output 9-2
- 9.3 SIA Dialer Output 9-6

Section 10

Testing and Troubleshooting 10-1

- 10.1 Troubleshooting 10-1
- 10.2 Common Problems 10-1
 - 10.2.1 Event History 10-2
- 10.3 Built-in Troubleshooting and Testing Tools 10-3
 - 10.3.1 SLC Device Locator 10-3
 - 10.3.2 SLC Multi Locator 10-4
 - 10.3.3 I/O Point Control 10-5

Section 11

Installation Records 11-1

- 11.1 SLC Point Record 11-1
- 11.2 Conventional Output Point Record 11-6

Appendix A

Compatible Devices A-1

- A.1 Two-Wire Smoke Detectors A-1
- A.2 Four-Wire Smoke Detectors A-2
- A.3 Notification Appliances A-3
- A.4 Door Holder Device A-10

Appendix B

Word and Special Characters ListsB-1

- B.1 Characters used for NamingB-1