



Control Panel Standard - Features for False Alarm Reduction

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Control Panel Standard - Features for False Alarm Reduction

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Standards
Security Industry Association
635 Slaters Lane, Suite 110
Alexandria, VA, 22314
E-mail:
Standards@SIAOnline.org

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ACKNOWLEDGMENTS

This standard was developed by the SIA Control / Communicator Standards Subcommittee. The voting members of the Subcommittee are listed below.

SIA gratefully acknowledges the efforts of the many volunteers from the security industry that helped the Subcommittee to develop this standard.

SIA Control / Communicator Standards Subcommittee, February 1994 (Baseline of the Standard)

Chairman of the SIA Standards Committee:

Silent Knight Security Systems Theodore A. Nesse

Chairman of the SIA Control / Communicator Standards Subcommittee:

Caddx-Caddi Controls Jim Stevens

Company Voting Members of the SIA Control / Communicator Standards Subcommittee:

Ademco Security Group Frank Marino
ADT Security Systems Bernard Worst
Aritech Corporation William Lautzenheiser
AT&T Consumer Products Don Hornback
Caddx-Caddi Controls Jim Stevens
Central Station Alarm Association. Tom Lewin
Fire Burglary Instruments Ted Simon
Interactive Technologies..... Robert Brunius
National Burglar and Fire Alarm Association Brad Shipp
Radionics, Inc. Pat Kelly
Scantronic (USA), Inc. Bill Nuffer
Sentrol, Inc. David S. Terrett
Silent Knight Security Systems Glen Wontorcik

SIA also gratefully recognizes the efforts of the SIA Control Panels Working Group who developed the *Recommended Self-Validation Test Procedures* for the 1997 revision of this standard.

Chairman of the SIA Standards Committee:

L. T. Fiore, Inc. Louis T. Fiore

Chairman of the SIA Control / Communicator Standards Subcommittee:

Caddx-Caddi Controls Jim Stevens

Company Voting Members of the SIA Control / Communicator Standards Subcommittee:

Ademco Security Group Richard Hinkson
ADT Security Systems..... Samuel S. Wen
C & K Systems, Inc. Steve Suthers
Caddx-Caddi Controls, Inc. Jim Stevens
Fire Burglary Instruments, Inc. Robert Orlando
Interactive Technologies, Inc..... Richard Buus
Sentrol, Controls Group..... David S. Terrett
Underwriters Laboratories Jim E. Lesniak

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SIA Control Panel Standards Subcommittee, April 1999 (1999 Revision of the Standard)

Chairman of the SIA Standards Committee:

ADT Security Systems..... William Moody

Chairman of the SIA Control / Communicator Standards Subcommittee:

Caddx Controls Jim Stevens

SIA Staff Administrator L. Virginia Williams

Open industry vote, ballots cast by the following companies: (85% approval in ballots cast)

Ademco	Richard Hinkson
ADI	Stan Martin
ADT	Charles Erichson
Advanced Algorithms, Inc.....	Greg Spar
Advanced Technology Associates.....	David S. Terrett
Aegis Security.....	George M. Fotiades
AIREF Model States Program – California	Pamela L. Harlan
AIREF Model States Program – Illinois	Dan Petesch
Alarm Detection Systems.....	Bob Bonifas
Alarm Security Protection Co., Inc. (A.S.P.).....	Carl E. Spiegel
Anchor Alarm, Inc.....	Ed Bruerton
Best Access Systems	James Abney
Brinks Home Security.....	Mitchel Christopher
C&K Systems	Steve Aguilar
Caddx Controls	Jim Stevens
Central Signal Corp.	Paul Carroll
Detection Systems / Radionics	Kevin Patterson / Drew Chernoy
Discopy, Inc.....	Ed Grinovich
Digital Security Controls (DSC) Ltd.....	David Clark
Electronic Security Services	Bill Gerth
EMAR Group, Inc.....	Anthony Dell’Isola
Emergency 24	Maureen Gold
Fire Burglary Instruments, Inc. (FBII).....	Ted Simon
The Greater Alarm Company, Inc.	Richard A. Johnson
Greystone Systems	Jim Hamilton
Kismet Group Ltd.	Craig Leiser
McInerney Consulting.....	William D. McInerney
Moon Security Service	Michael A. Miller
National Burglar and Fire Alarm Assn.	Brad Shipp
Optex (America)	Paul Van Winkle
Phoenix Police Department	Patti Rea

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Security Associates International.....	Ron Carr
Security Equipment Inc.	Sid Meridith
Security Systems by Hammond	M. B. Hammond
Security Systems, Inc.....	Ronald D. LaFontaine
Secumet Protective Services.....	Lamar D. Fuller
Sentrol - SLC Technologies, Inc.	Barry M. Clarke
Transcience	Don Bosak
Underwriters Laboratories	Isaac I. Papier
Westec Home Security	Robert L. Ohm

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REVISION HISTORY

The following are changes made to this document, listed by revision.

FEBRUARY 1994 BASELINE

Original Publication

AUGUST 1997 REVISION

Added Appendix: Recommended Self-Validation Test Procedures

APRIL 1999 REVISION

Numerous and extensive changes, including:

- Conventions used in the document
- Ranges and default settings of time sensitive features
- Terms used to describe certain timing features
- Specific treatment of features that are allowed though not required
- Additional requirements for arming stations, especially for remote arming and manual alarms
- Additional requirements for power caused false alarms
- Minor clarifying language throughout
- Reference to programming at installation
- Reference to UL product listing to this standard

JANUARY 2000 REVISION

- Substantive Change
 - 4.2.5.1 Abort Window - Change the line in the programming range chart from "*Maximum 30-255 sec*" to "*Maximum 45 sec*".
- Non-Substantive Change
 - 3.2 Definition of Duress - Add the following phrase after "a facility": or commit some other act or action "against the individual's will."
 - 3.2 Definition of Zone Type - Change to: zone type - a zone or group of zones identified by common function or operating mode.
 - 4.2.4.1 Description of Control Buttons - add after "Remote control device buttons, including Duress, Holdup and Panic, shall be mechanically designed ... be minimized.
 - 4.2.5.1.2 Abort Window - Add a note that an abort signal may be sent.

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- 4.6.1. Add a note to Quick Reference that user manuals should contain the following statement, or one similar: “There is a communicator delay of 30 seconds in this control panel. It can be removed, or it can be increased up to 45 seconds, at the option of the end user by consulting with the installer.”
- Appendix A – 4.2.5.1- Changed range from “*15 sec - 30 sec (255 sec max)*” to “*15 sec - 45 sec*”
- Appendix B – 4.2.5.1 – Changed from “*15 to between 30 and 255 seconds*” to “*15 to 45 seconds.*”
- Appendix D – Test Procedures 4.2.5.1 –

Changed maximum Abort Window delay from ‘*255 sec*’ to ‘*45 sec*’

Changed verification parameters from “*time between the trip and the local alarm*” to “*time between the local alarm and the alarm signal*”. (correction)

Added Abort Window verification test for 46 seconds

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1. SCOPE

This standard details recommended design features for security system control panels and their associated arming and disarming devices to reduce the incidence of false alarms. These features are applicable to both residential and commercial properties protected by an electronic security system.

This standard is intended for use by manufacturers in the design of control panels and alarm signal receivers. It is also intended for reference by all affected parties, including security system installers, specifiers, and users; central station

owners and operators; manufacturers of central station products, such as receivers and automation software; and local authorities.

This standard assumes that communications to the central station will be conducted by a robust contemporary communication protocol such as the *SIA Digital Communication Standard - "SIA Format" Protocol for Alarm System Communications*.

This standard is voluntary.

2. REFERENCE DOCUMENTS

2.1 RELATED AREAS

Additional guidance on areas relating to this standard, as noted and otherwise, can be obtained from the sources listed below.

Features within this standard are, in part, based on data and recommendations from the following publications:

- *Standards Committee Report (1994-1995), Central Station Alarm Association*
- *1994 Study of False Alarms, Security Industry Association*
- *Model Cities Executive Summaries, Alarm Industry Research and Education Foundation (AIREF)*
- *owners and operators; manufacturers of central station products, such as receivers and automation software; and local authorities.*
- *This standard assumes that communications to the central station will be conducted by a robust contemporary communication protocol such as the SIA Digital Communication Standard - "SIA Format" Protocol for Alarm System Communications.*
- *This standard is voluntary.*

This standard is intended to allow compliance with the following standards:

National Fire Protection Association

- *NFPA 72, National Fire Alarm Code*

Underwriters Laboratories, Inc.

- *UL 609, Local Burglar-Alarm Units and Systems*
- *UL 611, Central-Station Burglar-Alarm Systems*
- *UL 681, Installation and Classification of Mercantile and Bank Burglar-Alarm Systems*
- *UL 864, Control Units for Fire-Protective Signaling Systems*