Control Panel Standard - Features for False Alarm Reduction

ANSI/SIA CP-01-2000

Sponsor
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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)

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Sentrol, Inc. ................................................................. David S. Terrett
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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.

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Anchor Alarm, Inc...................................................Ed Bruerton
Best Access Systems ...............................................James Abney
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C&K Systems...........................................................Steve Aguilar
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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.
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
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:

- *Model Cities Executive Summaries*, Alarm Industry Research and Education Foundation (AIREF)

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-Protection Signaling Systems*