



**Digital Communications
Technical Report –
Generic Overview –
of Security Industry
Communicator Formats**

SIA DC-02-1992.02 (R2000.05)

**Sponsor
Security Industry Association**

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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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ACKNOWLEDGEMENT

This standard was developed by the SIA Digital Communications Standard Subcommittee. The significant contributors to this standard are listed below.

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

SIA Digital Communications Standard Subcommittee, 1992 - 1993

Chairman of the SIA Standards Committee

Silent KnightTed Nesse

Chairman of the SIA Digital Communications Standard Subcommittee

Pierson and AssociatesHugh Pierson

Significant Contributors

AdemcoRich Hinkson
AdemcoJohn Foster
Aritech/MooseKirk Phillips
AT&TDon Hornback
CADDX ControlsJim Stevens
CADDX ControlsFrank Clark
Code-Alarm ISIPeter Stouffer
Monitoring Automation SystemsSteve Keefer
Morse Security GroupMike Belkowitz
NBFAABrad Shipp
Pierson and AssociatesHugh Pierson
Radionics, Inc.Drew Chernoy
Radionics, Inc.Ken Rolle
SentrolDave Terrett
Silent KnightTed Nesse

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Revision History

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

FEBRUARY 1992 BASELINE

Original Publication

OCTOBER 1994 ADDENDA

Added clarifications to Format F2

MAY 2000 REVISION

No changes to content

Incorporated clarifications of October 1994 in body of text

Reformatted Standard to current style conventions

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1. SCOPE & PURPOSE

1.1 Scope

This standard details the basic transmission parameters of security industry communication protocols. This standard does not detail specific manufacturer data definitions associated with each protocol.

This standard is for use by receiver manufacturers and central station automation systems in receiving and decoding signals from on-premises security systems. This standard is for reference by central station personnel and others.

1.2 Purpose

This standard was developed to document the general transmission parameters of various proprietary communications protocols used in the security industry.

2. REFERENCES

Underwriters Laboratory Standards

This standard is intended to comply with U.L. requirements.

Telecommunication Industry Standards

Bell 103 – available from (WHERE)

Regulatory Agency Compliance

This specification is intended to comply with all relevant sections of the Rules and Regulations of the Federal Communications Commission. For overseas applications, products designed to this standard must

also meet the requirements set forth by the telecommunication authority for the particular region.

Manufacturer data definition

Other information on security industry communication can be found in the following standards:

SIA Standards:

- **SIA DC-02:** SIA Standards - Computer Interface Standard PHASE 2
- **SIA DC-03:** Digital Communications Standard – “SIA Format” Protocol for Alarm System Communications
- **SIA DC-04:** Digital Communications Standard – SIA 2000 Protocol for Alarm System Communications
- **SIA DC-05:** Digital Communications Standard – Ademco® “Contact ID” Protocol for Alarm System Communications

3. CONVENTIONS AND DEFINITIONS

3.1 Conventions

3.1.1 Identification of Sections.

Sections within this standard are identified and referenced by the number preceding each section. Unless otherwise specified, references to a section refer only to the text within that numbered section and not to subsequent numbered subsections within the section.