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Alarm systems –

Part 7-1: Message formats and protocols for serial data interfaces in alarm transmission systems – General

Systèmes d'alarme –

Partie 7-1: Formats de message et protocoles pour les interfaces de données série dans les systèmes de transmission d'alarme – Généralités

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ALARM SYSTEMS –

Part 7-1: Message formats and protocols for serial data interfaces in alarm transmission systems – General

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60839-7-1 has been prepared by IEC technical committee 79: Alarm systems.

The text of this standard is based on the following documents:

FDIS	Report on voting
79/198/FDIS	79/208/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

Annexes A and B are for information only.

The committee has decided that the contents of this publication will remain unchanged until 2004. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

A bilingual version of this standard may be issued at a later date.

IEC 60839-7-1 forms one of a number of related parts presented under the general title: Alarm systems – Part 7: Message formats and protocols for serial data interfaces in alarm transmission systems:

- IEC 60839-7-1: General
- IEC 60839-7-2: Common application layer protocol
- IEC 60839-7-3: Common data link layer protocol
- IEC 60839-7-4: Common transport layer protocol
- IEC 60839-7-5: Alarm system interfaces employing a two-wire configuration in accordance with ISO/IEC 8482
- IEC 60839-7-6: Alarm system interfaces employing ITU-T Recommendation V.24/V.28 signalling
- IEC 60839-7-7: Alarm system interfaces for plug-in alarm system transceivers
- IEC 60839-7-11: Serial protocol for use by digital communicator systems using ITU-T Recommendation V.23 signalling at interfaces with the PSTN
- IEC 60839-7-12: PTT interfaces for dedicated communications channels using ITU-T Recommendation V.23 signalling
- IEC 60839-7-20: Terminal interfaces employing ITU-T Recommendation V.24/V.28 signalling

ALARM SYSTEMS –

Part 7-1: Message formats and protocols for serial data interfaces in alarm transmission systems – General

1 Scope

This part of IEC 60839 describes the requirements for standard serial data interfaces in alarm transmission systems. It gives an outline of how alarm transmission systems are connected and the various types of serial data interfaces that might be employed. This part includes a range of examples.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 60839. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of IEC 60839 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60839-7-2, *Alarm systems – Part 7-2: Message formats and protocols for serial data interfaces in alarm transmission systems – Common application layer protocol*

IEC 60839-7-5, *Alarm systems – Part 7-5: Message formats and protocols for serial data interfaces in alarm transmission systems – Alarm system interface employing a two-wire configuration in accordance with ISO/IEC 8482*

IEC 60839-7-7, *Alarm systems – Part 7-7: Message formats and protocols for serial data interfaces in alarm transmission systems – Alarm system interface for plug-in alarm system transceivers*

IEC 60839-7-11, *Alarm systems – Part 7-11: Message formats and protocols for serial data interfaces in alarm transmission systems – Serial protocol for use by digital communicator systems using ITU-T Recommendation V.23 signalling at interfaces with the PSTN*

IEC 60839-7-12, *Alarm systems – Part 7-12: Message formats and protocols for serial data interfaces in alarm transmission systems – PTT Interfaces for dedicated communications using ITU-T Recommendation V.23 signalling*

IEC 60839-7-20, *Alarm systems – Part 7-20: Message formats and protocols for serial data interfaces in alarm transmission systems – Terminal interfaces employing ITU-T Recommendation V.24/V.28 signalling*

ISO/IEC 8482, *Information technology – Telecommunications and information exchange between systems – Twisted pair multipoint interconnections*

ITU-T Recommendation V.23, *600/1200-baud modem standardized for use in the general switched telephone network*

ITU-T Recommendation V.24, *List of definitions for interchange circuits between data terminal equipment (DTE) and data circuit-terminating equipment (DCE)* ¹⁾

ITU-T Recommendation V.28, *Electrical characteristics for unbalanced double-current interchange circuits*

¹⁾ To be published.