

INTERNATIONAL STANDARD

IEC 60839-7-12

First edition
2001-03

Alarm systems –

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

Systemes d'alarme –

*Partie 7-12:
Formats de message et protocoles pour les interfaces de
donnees serie dans les systemes de transmission d'alarme –
Interfaces PTT pour les voies de communication dediees
utilisant la recommandation UIT-T V.23 pour la signalisation*



Reference number
IEC 60839-7-12:2001(E)

Publication numbering

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ALARM SYSTEMS –

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

FOREWORD

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International Standard IEC 60839-7-12 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
79/206/FDIS	79/217/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.

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- withdrawn;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 60839-7-12 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 using ITU-T Recommendation V.23 signalling
- IEC 60839-7-20: Terminal interfaces employing ITU-T Recommendation V.24/V.28 signalling

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ALARM SYSTEMS –

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

1 Scope

This part of IEC 60839 specifies the requirements for standard interfaces between the alarm system transceivers and transmission network where both form part of a dedicated channel alarm transmission system as defined in IEC 60839-5-4.

This standard applies equally to the interface between an alarm system and the transmission where the alarm system transceiver functions are integrated into the control and indicating equipment (CIE). It also applies to the interface to the transmission network from the terminal receiver at the alarm receiving centre.

This standard provides for a 1 200 baud interface using the ITU-T Recommendation V.23 standard.

This is required in order to ensure compatibility of equipment from different suppliers. The standard applies equally to the transmission of alarms and other messages to/from intrusion, fire, access control and social alarm systems, and to the transmission of information to/from other similar systems.

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 60839-5-4, *Alarm systems – Part 5: Requirements for alarm transmission systems – Section 4: Alarm transmission systems using dedicated alarm transmission paths*

IEC 60839-7-1, *Alarm systems – Part 7-1: Message formats and protocols for serial data interfaces in alarm transmission systems – General*

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 60839-7-3, *Alarm systems – Part 7-3: Message formats and protocols for serial data interfaces in alarm transmission systems – Common data link layer protocol*

IEC 60839-7-4, *Alarm systems – Part 7-4: Message formats and protocols for serial data interfaces in alarm transmission systems – Common transport layer protocol*

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