INTERNATIONAL STANDARD



First edition 2001-03

Alarm systems -

Part 7-5:

Partie 7-5:

Message formats and protocols for serial data interfaces in alarm transmission systems – Alarm system interfaces employing a two-wire configuration in accordance with ISO/IEC 8482

Systèmes d'alarme

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Formats de message et protocoles pour les interfaces de données série dans les systèmes de transmission d'alarme – Interfaces de systèmes d'alarme utilisant une configuration bifilaire conforme à ISO/CEI 8482



Reference number IEC 60839-7-5:2001(E)

Publication numbering

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International Electrotechnical Commission3, rue de Varembé Geneva, SwitzerlandTelefax: +41 22 919 0300e-mail: inmail@iec.chIEC web site http://www.iec.ch



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ALARM SYSTEMS -

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

FOREWORD

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International Standard IEC 60839-7-5 has been prepared by IEC technical committee 79: Alarm systems.

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

\searrow	FDIS	Report on voting
	79/202/FDIS	79/212/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- withdrawn;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 60839-7-5 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: IEC 60839-7-11:	Alarm system interfaces for plug-in alarm system transceivers Serial protocol for use by digital communicator systems using TU-T
120 00039-7-11.	Recommendation V.23 signalling at interfaces with the RSTN
IEC 60839-7-12:	PTT interfaces for dedicated communications using TU-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 7-5: Message formats and protocols for serial data interfaces in alarm transmission systems – Alarm system interfaces employing a two-wire configuration in accordance with ISO/IEC 8482

1 Scope

This part of IEC 60839 specifies the requirements for standard interfaces using a two-wire connection employing ISO/IEC 8482 signalling for use between the control and indicating equipment (CIE) of an alarm system and one or more alarm system transceivers connected to alarm transmission systems.

This standard provides a flexible interface allowing the connection of a single master CIE to a number of devices in accordance with ISO/IEC 8482 which may be alarm system transceivers or slave CIE.

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 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 60839-7-1, 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

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

3 Definitions

For the purpose of this part of IEC 60839, the definitions in IEC 60839-7-1 apply.