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Interface d'éclairage adressable numérique - Partie 102: Exigences générales - Appareillages de commande (IEC 62386-102:2022)

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European foreword

The text of document 34/948/FDIS, future edition 3 of IEC 62386-102, prepared by IEC/TC 34 "Lighting" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62386-102:2022.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2023-09-21
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-12-21

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In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 62386-102:2014 NOTE Harmonized as EN 62386-102:2014 (not modified)

IEC 62386-104 NOTE Harmonized as EN IEC 62386-104

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 62386-101	2022	Digital addressable lighting interface - Part 101: General requirements - System components	EN IEC 62386-101	2022
IEC 62386-103	2022	Digital addressable lighting interface - Part 103: General requirements - Control devices	EN IEC 62386-103	2022
IEC 62386-2XX	series	Digital addressable lighting interface - Part 2XX: Particular requirements for control gear	EN 62386-2XX	series

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Interface d'éclairage adressable numérique – Partie 102: Exigences générales – Appareillages de commande

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SIST EN IEC 62386-102:2023

CONTENTS

FOREWORD 7
INTRODUCTION 9
1 Scope 11
2 Normative references 11
3 Terms and definitions 11
4 General 14
4.1 General 14
4.2 Version number 14
5 Electrical specification 15
6 Bus power supply 15
7 Transmission protocol structure 15
7.1 General 15
7.2 16-bit forward frame encoding 15
7.2.1 General 15
7.2.2 Address byte 15
7.2.3 Opcode byte 15
8 Timing 16
9 Method of operation 16
9.1 General 16
9.2 Control gear 16
9.2.1 General 16
9.2.2 Control gear phases 16
9.3 Dimming curve 17
9.4 Calculating *"targetLevel"* 20
9.5 Fading 20
9.5.1 General 20
9.5.2 Fade time 21
9.5.3 Fade rate 22
9.5.4 Extended fade time 23
9.5.5 Using the fade time 25
9.5.6 Using the fade rate 25
9.5.7 System response to changes during a fade 26
9.5.8 System response to changes during standby and startup 26
9.5.9 Stopping a fade 26
9.6 Min and max level 26
9.7 Commands 27
9.7.1 General 27
9.7.2 Level instructions without fade 27
9.7.3 Level instructions initiating a fade 28
9.7.4 Configuration instructions 28
9.7.5 Queries 28
9.7.6 Special commands 28
9.7.7 Application extended commands 28
9.8 Command iterations 28
9.8.1 General 28

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN IEC 62386-102:2023
https://standards.iteh.ai/catalog/standards/sist/e3ceeee-e9d2-4768-9007-

SIST EN IEC 62386-102:2023

9.8.2 Command iteration of "UP" and "DOWN" commands 28
9.8.3 DAPC SEQUENCE (deprecated) 29
9.9 Modes of operation 30
9.9.1 General 30
9.9.2 Operating mode 0x00: standard mode 30
9.9.3 Operating mode 0x01 to 0x7F: reserved 30
9.9.4 Operating mode 0x80 to 0xFF: manufacturer-specific modes 30
9.10 Memory banks 30
9.10.1 General 30
9.10.2 Memory map 31
9.10.3 Selecting a memory bank location 32
9.10.4 Protectable memory locations 32
9.10.5 Memory bank reading 32
9.10.6 Memory bank writing 34
9.10.7 Memory bank 0 35
9.10.8 Memory bank 1 (optional) 37
9.10.9 Manufacturer-specific memory banks 39
9.10.10 Reserved memory banks 39
9.11 Reset 39
9.11.1 Reset operation 39
9.11.2 Reset memory bank operation 39
9.12 System failure 40
9.13 Power on 40
9.14 Assigning short addresses 41
9.14.1 General 41
9.14.2 Random address allocation 41
9.14.3 Identification of a device 42
9.14.4 Direct address allocation 43
9.15 Failure state behaviour 43
9.16 Status information 43
9.16.1 General 43
9.16.2 Bit 0: Control gear failure 44
9.16.3 Bit 1: lamp failure 44
9.16.4 Bit 2: lamp on 46
9.16.5 Bit 3: limit error 46
9.16.6 Bit 4: fade running 46
9.16.7 Bit 5: reset state 46
9.16.8 Bit 6: missing short address 46
9.16.9 Bit 7: power cycle seen 46
9.17 Non-volatile memory 46
9.18 Device types and features 47
9.19 Using scenes 47
9.20 Current bus unit configuration 48
10 Declaration of variables 49
11 Definition of commands 52
11.1 General 52
11.2 Overview sheets 52
11.3 Level instructions 57
11.3.1 DAPC (*level*) 57

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN IEC 62386-102:2023
https://standards.iteh.ai/catalog/standards/sist/...-iec-62386-102-2023

SIST EN IEC 62386-102:2023

11.3.2 OFF 57
11.3.3 UP 57
11.3.4 DOWN 57
11.3.5 STEP UP 58
11.3.6 STEP DOWN 58
11.3.7 RECALL MAX LEVEL 58
11.3.8 RECALL MIN LEVEL 59
11.3.9 STEP DOWN AND OFF 59
11.3.10 ON AND STEP UP 59
11.3.11 ENABLE DAPC SEQUENCE 60
11.3.12 GO TO LAST ACTIVE LEVEL 60
11.3.13 CONTINUOUS UP 60
11.3.14 CONTINUOUS DOWN 60
11.3.15 GO TO SCENE (*sceneNumber*) 60
11.4 Configuration instructions 60
11.4.1 General 60
11.4.2 RESET 61
11.4.3 STORE ACTUAL LEVEL IN DTR0 61
11.4.4 SET OPERATING MODE (*DTR0*) 61
11.4.5 RESET MEMORY BANK (*DTR0*) 61
11.4.6 IDENTIFY DEVICE 61
11.4.7 SET MAX LEVEL (*DTR0*) 62
11.4.8 SET MIN LEVEL (*DTR0*) 62
11.4.9 SET SYSTEM FAILURE LEVEL (*DTR0*) 62
11.4.10 SET POWER ON LEVEL (*DTR0*) 63
11.4.11 SET FADE TIME (*DTR0*) 63
11.4.12 SET FADE RATE (*DTR0*) 63
11.4.13 SET EXTENDED FADE TIME (*DTR0*) 63
11.4.14 SET SCENE (*DTR0, sceneX*) 64
11.4.15 REMOVE FROM SCENE (*sceneX*) 64
11.4.16 ADD TO GROUP (*group*) 64
11.4.17 REMOVE FROM GROUP (*group*) 64
11.4.18 SET SHORT ADDRESS (*DTR0*) 64
11.4.19 ENABLE WRITE MEMORY 65
11.5 Queries 65
11.5.1 General 65
11.5.2 QUERY STATUS 65
11.5.3 QUERY CONTROL GEAR PRESENT 65
11.5.4 QUERY CONTROL GEAR FAILURE 65
11.5.5 QUERY LAMP FAILURE 65
11.5.6 QUERY LAMP POWER ON 65
11.5.7 QUERY LIMIT ERROR 65
11.5.8 QUERY RESET STATE 65
11.5.9 QUERY MISSING SHORT ADDRESS 65
11.5.10 QUERY VERSION NUMBER 66
11.5.11 QUERY CONTENT DTR0 66
11.5.12 QUERY DEVICE TYPE 66
11.5.13 QUERY NEXT DEVICE TYPE 66
11.5.14 QUERY PHYSICAL MINIMUM 66

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN IEC 62386-102:2023
https://standards.iteh.ai/catalog/standards/sist/...-62386-102-2023

SIST EN IEC 62386-102:2023

11.5.15 QUERY POWER FAILURE 67
11.5.16 QUERY CONTENT DTR1 67
11.5.17 QUERY CONTENT DTR2 67
11.5.18 QUERY OPERATING MODE 67
11.5.19 QUERY LIGHT SOURCE TYPE 67
11.5.20 QUERY ACTUAL LEVEL 68
11.5.21 QUERY MAX LEVEL 68
11.5.22 QUERY MIN LEVEL 68
11.5.23 QUERY POWER ON LEVEL 68
11.5.24 QUERY SYSTEM FAILURE LEVEL 68
11.5.25 QUERY FADE TIME/FADE RATE 68
11.5.26 QUERY EXTENDED FADE TIME 68
11.5.27 QUERY MANUFACTURER SPECIFIC MODE 68
11.5.28 QUERY SCENE LEVEL (*sceneX*) 68
11.5.29 QUERY GROUPS 0-7 69
11.5.30 QUERY GROUPS 8-15 69
11.5.31 QUERY RANDOM ADDRESS (H) 69
11.5.32 QUERY RANDOM ADDRESS (M) 69
11.5.33 QUERY RANDOM ADDRESS (L) 69
11.5.34 READ MEMORY LOCATION (*DTR1, DTR0*) 69
11.6 Application extended commands 69
11.6.1 General 69
11.6.2 QUERY EXTENDED VERSION NUMBER 70
11.7 Special commands 70
11.7.1 General 70
11.7.2 TERMINATE 70
11.7.3 DTR0 (*data*) 70
11.7.4 INITIALISE (*device*) 70
11.7.5 RANDOMISE 71
11.7.6 COMPARE 71
11.7.7 WITHDRAW 71
11.7.8 SEARCHADDRH (*data*) 71
11.7.9 SEARCHADDRM (*data*) 72
11.7.10 SEARCHADDRL (*data*) 72
11.7.11 PROGRAM SHORT ADDRESS (*data*) 72
11.7.12 VERIFY SHORT ADDRESS (*data*) 72
11.7.13 QUERY SHORT ADDRESS 72
11.7.14 ENABLE DEVICE TYPE (*data*) 73
11.7.15 DTR1 (*data*) 73
11.7.16 DTR2 (*data*) 73
11.7.17 WRITE MEMORY LOCATION (*DTR1, DTR0, data*) 73
11.7.18 WRITE MEMORY LOCATION – NO REPLY (*DTR1, DTR0, data*) 74
11.7.19 PING 74
Annex A (informative) Examples of algorithms 75
A.1 Random address allocation 75
A.2 One single control gear connected to the control device 75
A.3 Using application extended commands 76
Annex B (normative) High resolution dimmer 77
Bibliography 79

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN IEC 62386-102:2023
https://standards.iteh.ai/catalog/standards/sist/...iec-62386-102-2023

SIST EN IEC 62386-102:2023

Figure 1 – IEC 62386 graphical overview 9
Figure 2 – Control gear directly operating a light source 16
Figure 3 – Dimming curve 18
Figure 4 – Level over time, fading up and down 21
Figure 5 – Timing and response when executing command iteration 29
Figure 6 – Correlation between "*lampFailure*", "*lampOn*" and "*fadeRunning*" bits 45
Figure B.1 – Level behaviour in case of off-grid starting points 78

Table 1 – 16-bit command frame encoding 15
Table 2 – Dimming curve tolerance 18
Table 3 – Dimming curve 19
Table 4 – Fade times 22
Table 5 – Fade rates 23
Table 6 – Extended fade time – Base value 24
Table 7 – Extended fade time – Multiplier 24
Table 8 – Memory types 31
Table 9 – Basic memory map of memory banks 31
Table 10 – Memory map of memory bank 0 35
Table 11 – Memory map of memory bank 1 38
Table 12 – Power on timing 41
Table 13 – Control gear status 43
Table 14 – Scenes 48
Table 15 – Current bus unit configuration 49
Table 16 – Declaration of variables 50
Table 17 – Standard commands 52
Table 18 – Special commands 56
Table 19 – Light source type encoding 67
Table 20 – Device addressing with "INITIALISE (*device*)" 70

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(standards.iteh.ai)
SIST EN IEC 62386-102:2023
https://standards.iteh.ai/catalog/standards/sist/7e3ccece-e9d2-4768-9607-0908d0027b7e/sist-en-iec-62386-102-2023

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DIGITAL ADDRESSABLE LIGHTING INTERFACE –

Part 102: General requirements – Control gear

FOREWORD

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IEC 62386-102 has been prepared by IEC technical committee 34: Lighting. It is an International Standard.

This third edition cancels and replaces the second edition published in 2014 and Amendment 1:2018. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- the scope has been updated;
- references have been updated;
- memory bank reading of multi-byte values has been added;
- memory bank 0 and common memory bank requirements have been updated;
- reserved memory banks have been updated;

SIST EN IEC 62386-102:2023

- non-volatile memory (NVM) save time has been added, and SAVE PERSISTENT VARIABLES removed;
- version number has been updated;
- bus unit configuration has been added.

The text of this International Standard is based on the following documents:

Draft	Report on voting
34/948/FDIS	34/989/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

This Part 102 of IEC 62386 is intended to be used in conjunction with Part 101, which contains general requirements for the relevant product type (system), and with the appropriate Part 2xx (particular requirements for control gear) containing clauses to supplement or modify the corresponding clauses in Part 101 and Part 102 in order to provide the relevant requirements for each type of product.

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A list of all parts in the IEC 62386 series, published under the general title *Digital addressable lighting interface*, can be found on the IEC website.

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The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
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- amended.

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INTRODUCTION

IEC 62386 contains several parts, referred to as series. The IEC 62386 series specifies a bus system for control by digital signals of electronic lighting equipment. The IEC 62386-1xx series includes the basic specifications. Part 101 contains general requirements for system components, Part 102 extends this information with general requirements for control gear and Part 103 extends it further with general requirements for control devices. Part 104 and Part 105 can be applied to control gear or control devices. Part 104 gives requirements for wireless and alternative wired system components. Part 105 describes firmware transfer. Part 150 gives requirements for an auxiliary power supply which can be stand-alone, or built into control gear or control devices.

The IEC 62386-2xx series extends the general requirements for control gear with lamp specific extensions (mainly for backward compatibility with Edition 1 of IEC 62386) and with control gear specific features.

The IEC 62386-3xx series extends the general requirements for control devices with input device specific extensions describing the instance types as well as some common features that can be combined with multiple instance types.

This third edition of IEC 62386-102 is intended to be used in conjunction with IEC 62386-101 and with the various parts that make up the IEC 62386-2xx series for control gear, and can be used together with IEC 62386-103 for control devices. The division into separately published parts provides for ease of future amendments and revisions. Additional requirements will be added as and when a need for them is recognised.

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The setup of the standards is graphically represented in Figure 1 below.

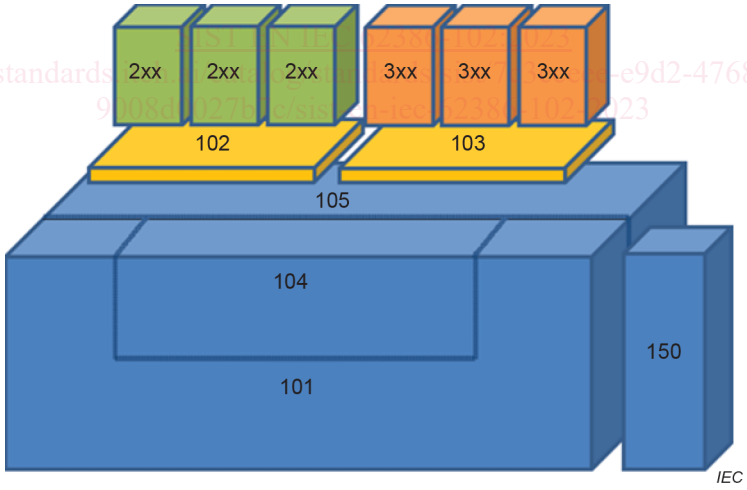

Figure 1 – IEC 62386 graphical overview

When this part of IEC 62386 refers to any of the clauses of the other parts of the IEC 62386-1xx series, the extent to which such a clause is applicable is specified. The other parts also include additional requirements, as necessary.

All numbers used in this document are decimal numbers unless otherwise noted. Hexadecimal numbers are given in the format 0xVV, where VV is the value. Binary numbers are given in the format XXXXXXXXb or in the format XXXX XXXX, where X is 0 or 1 and "x" in binary numbers means "don't care".