

AS/NZS IEC 62386.250:2024
IEC 62386-250:2023



STANDARDS
Australia



Australian/New Zealand Standard™

Digital addressable lighting interface

**Part 250: Particular requirements — Integrated power supply
(device type 49)**



AS/NZS IEC 62386.250:2024

This Joint Australian/New Zealand Standard™ was prepared by Joint Technical Committee EL-041, Lighting. It was approved on behalf of Standards Australia's Standards Development and Accreditation Committee on 25 January 2024 and by the New Zealand Standards Approval Board on 01 November 2023.

This Standard was published on 23 February 2024.

The following are represented on Committee EL-041:

- Australian Industry Group
- Better Regulation Division (Fair Trading, SafeWork NSW, TestSafe)
- Consumer Electronics Suppliers Association
- Consumers Federation of Australia
- Department of Climate Change, Energy, the Environment and Water
- Electrical Compliance Testing Association of Australia
- Electrical Regulatory Authorities Council, Australia
- Energy Efficiency & Conservation Authority of New Zealand
- Energy Efficiency Council
- IES: The Lighting Society
- Joint Accreditation System of Australia & New Zealand
- Joint Accreditation System of Australia and New Zealand — New Zealand
- Lighting Council Australia
- Lighting Council New Zealand
- Master Electricians NZ
- National Association of Testing Authorities Australia

This Standard was issued in draft form for comment as DR AS/NZS IEC 62386.250:2024.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

www.standards.org.au

www.standards.govt.nz

ISBN 978 1 76139 518 5

Australian/New Zealand Standard™

Digital addressable lighting interface

Part 250: Particular requirements — Integrated power supply (device type 49)

First published as AS/NZS IEC 62386.250:2024.



© IEC Geneva Switzerland 2024 — All rights reserved

© Standards Australia Limited/the Crown in right of New Zealand, administered by the New Zealand Standards Executive 2024

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of either the IEC or the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth) or the Copyright Act 1994 (New Zealand). If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please see the contact details on the back cover or the contact us page of the website for further information.

Preface

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee EL-041, Lighting.

The objective of this document is to specify the characteristics of a bus power supply integrated in a control gear. This document builds on the digital addressable lighting interface as specified in the IEC 62386 series.

This document is only applicable to control gear complying with IEC 62386-102.

This document is identical with, and has been reproduced from, IEC 62386-250:2023, *Digital addressable lighting interface — Part 250: Particular requirements — Integrated power supply (device type 49)*.

As this document has been reproduced from an International Standard, the following applies:

- (a) In the source text “this part of IEC 62386” should read “this Australian/New Zealand document”.
- (b) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

Contents

Preface	ii
FOREWORD	iv
INTRODUCTION	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General	1
4.1 General	1
4.2 Version number	1
5 Electrical specification	1
6 Bus power supply	2
6.1 General	2
6.2 Bus power supply current rating	2
6.3 Bus power supply status	2
7 Transmission protocol structure	2
8 Timing	2
9 Method of operation	2
9.1 Capabilities and configuration	2
9.2 Memory banks	2
9.2.1 General	2
9.2.2 Memory bank writing	2
9.2.3 Memory bank 201	2
10 Declaration of variables	3
11 Definition of commands	3
11.1 General	3
11.2 Overview sheets	4
11.3 Application extended commands	4
11.3.1 General	4
11.3.2 QUERY ACTIVE POWER SUPPLY	4
11.4 Special commands	4
11.4.1 General	4
11.4.2 ENABLE DEVICE TYPE (<i>data</i>)	4

List of Figures

Figure 1 — IEC 62386 graphical overview	vi
---	----

List of Tables

Table 1 — Memory bank 201, device identification (mandatory)	3
Table 2 — Declaration of variables	3
Table 3 — Definition of commands	4