

AS 2092.2:2025



Marine distress flares and signals for small craft

Part 2: Electronic Visual Distress Signals (EVDS)



AS 2092.2:2025

This Australian Standard® was prepared by CS-060, Lifejackets and Personal Safety Equipment for Small Craft. It was approved on behalf of Standards Australia's Standards Development and Accreditation Committee on 01 October 2025.

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The following are represented on Committee CS-060:

- Association of Accredited Certification Bodies
- Australian Chamber of Commerce and Industry
- Australian Maritime Safety Authority
- Australian Sailing
- Boating Industry Association
- Engineers Australia
- Marine and Safety Tasmania
- Marine Rescue NSW
- Maritime Safety Queensland
- Paddle Australia
- Queensland Water Police
- Surf Life Saving Australia
- Tasmania Maritime Network
- VicLab (Testing Interests Australia)

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Australian Standard®

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Part 2: Electronic Visual Distress Signals (EVDS)

Originated as AS 2092-1977.
Third edition 2004.
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How to read this Standard

This page explains the meaning of the language and structure of this Standard.

Refer to Standards Australia's [Standardisation Guide 006](#) for more details about drafting rules.

Australian and Australian/New Zealand Standards are voluntary unless they are referenced in legislation or called up in contracts.

Requirements

To conform to a Standard, all requirements in the Standard need to be met.

A requirement is any statement in the Standard which uses the word "shall".

Recommendations, permissions and possibilities

The following words are commonly used in Standards, but statements using them do not have to be followed to conform to the Standard:

- (a) "should" means that something is recommended.
- (b) "may" means that something is permitted.
- (c) "can" means that something is possible.

Structure of Standards

A Standard always has the following parts:

- (i) The Preface states who developed the Standard, what the Standard is aiming to do, and how it relates to other documents.
- (ii) The Scope states what the Standard is about, what it covers and what it does not cover.
- (iii) The Normative references clause lists other documents that are referenced in the Standard as part of requirements.
- (iv) The Terms and definitions clause defines important terms to help with understanding the Standard.

A Standard may also include other parts, such as the following:

- (1) A normative appendix sets additional requirements that need to be conformed to.
- (2) An informative appendix provides additional information or guidance. They usually do not contain requirements. If an informative appendix does contain requirements, the Standard will explain when those requirements apply.
- (3) A Bibliography lists documents referenced in the Standard but not as part of requirements.

Many Standards include notes. Notes provide recommendations and/or guidance only. They never contain requirements.

Preface

This Standard was prepared by the Australian members of the joint Standards Australia/Standards New Zealand Committee CS-060, Lifejackets and Personal Safety Equipment for Small Craft, to supersede, in part, AS 2092:2004, *Pyrotechnic marine distress flares and signals for pleasure craft*.

The objective of this document is to provide manufacturers, suppliers and testing facilities with minimum requirements for the functional and technical performance of Electronic Visual Distress Signal (EVDS) devices.

The CS-060 committee thanks the Radio Technical Commission for Maritime Services (RTCM) for allowing the use of their documents to form the basis of this Standard.

The main changes in this edition are as follows:

- (a) Create a new Standard capturing both pyrotechnic flares and EVDS in two parts.
- (b) Addition of Part 1 requirements for pyrotechnic flares to remain unchanged.
- (c) Addition of Part 2 requirements have been aligned with RTCM 13200.0, *Standard for Electronic Visual Distress Signal Devices (eVDSD)*.

NOTE The committee has taken USCG Title 46, Subpart 161.013, *Electric Distress Light for Boats* into consideration.

Where reference is made to a Standard by its number only, the reference applies to the current edition of the document. Where reference is made to a Standard by number, year and where relevant an amendment number, the reference applies to that specific document.

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

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Part 2: Electronic Visual Distress Signals (EVDS)

1 Scope

This document specifies the minimum performance requirements and test criteria for a hand-held electronic visual distress signalling (EVDS) device intended to be used by recreational boaters and others to meet state/territory emergency distress signal carriage requirements.

Marine communication devices including marine radio, EPIRBs (refer to AS/NZS 4280.1), PLBs (refer to AS/NZS 4280.2) or a combination of pyrotechnic flares from Part 1 of this document are included. Regulators may consider EVDS to be used in conjunction with other marine communication devices including marine radio, EPIRBs (refer to AS/NZS 4280.1), PLBs (refer to AS/NZS 4280.2) or a combination of pyrotechnic flares from Part 1 of this document are included.

This document does not cover pyrotechnic flares. For requirements of pyrotechnic flares, refer to AS 2092.1.

2 Normative references

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.

IEC 60417, *Graphical symbols for use on equipment (series)*

IEC 60945:2002, *Maritime navigation and radiocommunication equipment and systems — General requirements — Methods of testing and required test results*

IEC 62471:2006, *Photobiological safety of lamps and lamp systems (series)*

IALA Recommendation E-200-2, *On Marine Signal Lights: Part 2 — Calculation, Definition and Notation of Luminous Range*

IALA Recommendation E-200-3, *On Marine Signal Lights: Part 3 — Measurement*

IALA Recommendation E-200-4, *On Marine Signal Lights: Part 4 — Determination and Calculation of Effective Intensity*

3 Terms and definitions

3.1 Definitions

For the purpose of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- (a) IEC Electropedia: available at <https://www.electropedia.org/>
- (b) ISO Online browsing platform: available at <http://www.iso.org/obp>