

BS 10999:2010



BSI Standards Publication

Specification for distress signal units for the Fire and Rescue Service

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Summary of pages

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Foreword

Publishing information

This British Standard is published by BSI and came into effect on 31 March 2010. It was prepared by Technical Committee PH/4, *Respiratory protection*. A list of organizations represented on this committee can be obtained on request to its secretary.

Information about this document

This standard has been produced to update and supersede the Department for Communities and Local Government Specification JCDD/38 for automatic distress signal units [1].

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is "shall".

Commentary, explanation and general informative material is presented in notes in smaller italic type, and does not constitute a normative element.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

In particular, attention is drawn to the following legislation.

ATEX Directive [2]

EMC Directive [3]

PPE Directive [4]

The Noise at Work Regulations 1989 [5], as amended

The Waste Electrical and Electronic Equipment Regulations 2006 [6], as amended

1 Scope

This British Standard specifies minimum requirements for the performance and testing of distress signal units (DSUs) that emit at least an audible signal:

- a) to summon aid in the event the user becomes incapacitated or needs assistance, or for signalling evacuation, for use by Fire and Rescue Service (FRS) personnel; and
- b) that is activated automatically on immobility of the wearer of the DSU and manually operated separately by the wearer.

This standard is intended for DSUs used by the FRS and is applicable to both stand-alone DSUs and those integrated into self-contained breathing apparatus (SCBA).

NOTE A number of the requirements specified in this British Standard involve subjecting DSUs to tests. It is assumed that, where relevant, these tests are carried out with the DSUs in the condition in which they are intended to be used, e.g. with or without their keys.

2 Normative references

The following referenced documents are indispensable for the application 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.

BS EN 137:2006, *Respiratory protective devices – Self-contained open-circuit compressed air breathing apparatus with full face mask – Requirements, testing, marking*

BS EN 60079-11, *Explosive atmospheres – Equipment protection by intrinsic safety “i”*

BS EN 61000-6-2, *Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments*

BS EN 61672-1, *Electroacoustics – Sound level meters – Part 1: Specifications*

NFPA 1982:2007, *Standard on Personal Alert Safety Systems (PASS)*

3 Terms and definitions

For the purposes of this British Standard the following terms and definitions apply.

3.1 distress signal unit (DSU)

3.1.1 integrated

device with dispersed components incorporated into the construction or assembly of SCBA

3.1.2 stand-alone

self-contained, independent device contained in a single case, housing or enclosure that is not an integral part(s) of protective clothing or equipment, but includes a means of attachment

3.2 key

device that renders the DSU ready for use or silences it

EXAMPLES

Removable key, swipe card, smart card and electronic signal