

AS 3547.1:2019

(Incorporating Amendments up to and including No. 4)



STANDARDS
Australia



Breath alcohol testing devices

Part 1: Electronic devices for professional use



AS 3547.1:2019

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The following are represented on Committee CS-077:

- Association of Accredited Certification Bodies
- Australian Chamber of Commerce and Industry
- Australian Council of Trade Unions
- Australian Industry Group
- Civil Aviation Safety Authority
- Consumers Federation of Australia
- National Association of Testing Authorities Australia
- National Measurement Institute
- NSW Police Force
- Royal College of Pathologists of Australasia
- Transport Certification Australia
- Victoria Police
- WA Police
- Workplace Drug Testing Association

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Part 1: Electronic devices for professional use

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Preface

A3 This Standard was prepared by Standards Australia Committee CS-077, to supersede in part AS 3547:1997, *Breath alcohol testing devices*.

A4 This Standard incorporates Amendment No. 4 (December 2024), Amendment No. 3 (September 2023), and the change to Clause B.3.3 made by Amendment No. 2 (November 2022). The change made to the Title by Amendment No. 3 has been overwritten by the text of Amendment No. 4. The changes made to the Preface by Amendment No. 2 have been overwritten by the text of Amendment No. 3. The start and end of changes introduced by the Amendments are indicated in the text by tags including the Amendment number: **A4**

The objective of this document is to specify requirements for the performance, testing and marking of breath alcohol testing devices for professional use.

The AS 3547 series of standards defines the minimum technical requirements, and test methods to establish compliance, for breath alcohol testing devices.

The series covers a number of different device types that may be used across a number of different applications. The standards that currently make up AS 3547 are as follows, along with the basic scope of each document:

- (a) AS 3547.1, **A4** *Breath alcohol testing devices, Part 1: Electronic devices for professional use* (this document) **A4**

This Standard specifies requirements for the performance, testing and marking of breath alcohol testing devices for uses such as, but not limited to, personal, workplace and medical screening purposes.

It covers electronic portable devices for professional use, fixed installations, and units with basic interlock functions. This relates to type 2, 3 and 4 devices from AS 3547:1997.

The basic functions of an alcohol interlock are covered, with possibility of vehicle interlocks to be specifically covered under a future AS 3547.4. Other non-Australian standards currently exist in this field.

NOTE NMI R126 applies for evidential breath analysers, used specifically for legal evidential purposes.

- (b) AS 3547.2, **A4** *Breath alcohol testing devices, Part 2: Electronic devices for personal use* **A4**

This Standard specifies requirements for the performance, testing and marking of breath alcohol testing devices intended for personal use.

It covers electronic portable devices for personal use. This also relates to a type 2 device from AS 3547:1997.

- (c) AS 3547.3, **A4** *Breath alcohol testing devices, Part 3: Single-use devices* **A4**

This Standard specifies requirements for the performance, testing and marking of single-use, disposable breath alcohol testing devices. AS 3547.3 is a modified adoption of NF X20-702:2014.

A4 This relates to a type 1 device from AS 3547:1997. **A4**

Single-use disposable breathalysers are defined as qualitative devices as they are not capable of delivering and recording a quantitative or finite test result. They are personal screening devices which provide guidance to the breath alcohol concentration of a single breath sample against a pre-set indicative measure of BrAC. While adequate accuracy and reliability is ensured through AS 3547.3, they are appropriate for use in circumstances and environments covered by legislation where important personal decisions may be made by the user following assessment of a test result. Such circumstances may include, but not limited to road safety and workplace applications.

[A₄] [Text deleted.] [A₄]

Table A.1 of AS 3547:1997 was based on a blood to breath ratio of 2300:1. However, to be compliant with Australian legal units of measurement defined in the National Measurement Regulations, measurement units of grams of alcohol in 210 L of breath (g/210 L) have been used in these standards.

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. [A₃]

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