

Australian Standard™

Meters for water supply

Part 2: Combination meters

This Australian Standard was prepared by Committee WS-024, Meters for Water Purposes. It was approved on behalf of the Council of Standards Australia on 19 August 2003 and published on 14 January 2004.

The following are represented on Committee WS-024:

Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Australian Industry Group
Australian Institute of Refrigeration Air Conditioning and Heating
National Standards Commission
Water Services Association of Australia

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Meters for water supply

Part 2: Combination meters

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PREFACE

This Standard was prepared by the Standards Australia Committee WS-024, Meters for Cold Drinking Water, to supersede AS 3565.2—1996, *Meters for cold potable water, Part 2: Combination meters*

The objective of this Standard is to provide manufacturers with requirements for combination meters that are fitted with an electronic output device (EOD) to measure cold drinking water.

Attention is drawn to the fact that there may be legal requirements applying to water meters and that these requirements take precedence over the requirements of this Standard. The metrological requirements are based on NSC R 49-1, *Water meters intended for the metering of cold potable water*, and draft ISO/CD 4064-1, *Measurement of water flow in closed fully charged conduits*. It should be noted that NSC R 49-1, *Water meters intended for the metering of cold potable water*, may provide for the patent of meters that meet the National Measurement Requirements.

This Standard has been revised to include essential requirements to maintain progress with technology in the water meter industry.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix 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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STANDARDS AUSTRALIA

**Australian Standard
Meters for water supply****Part 2: Combination meters**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for combination meters with nominal flow rates not exceeding 150 kL/h and consisting of one small meter and one large meter in parallel, with a changeover device.

These combination meters are intended for installation in water services, to measure, within the specified accuracy limits, the volume of cold drinking water at working temperature range of 0.3°C to 30°C and pressure not exceeding 1400 kPa, respectively.

This Standard is applicable to combination meters that are capable of operating at intermittent temperatures of at least 50°C, which may be fitted with electronic output devices (EOD), are self-contained and capable of continuously determining, within the accuracy limits of the meter the volume of cold drinking water that has flowed through them, and are continuously indicating the volume on a cumulative basis. Such volume being equal to either—

- (a) the sum of the volumes shown on the registers of the small and large meters; or
- (b) the volume shown on the single register for both the small and large meters.

Means for demonstrating compliance with this Standard are given in Appendix A

NOTE: Purchasing guidelines are given in Appendix B.

1.2 INTERPRETATION

Unless otherwise specifically excluded by this Standard, reference to a meter in AS 3565.1 shall, for the purpose of this Standard, be interpreted to be either

- (a) a small or large meter of a combination meter; or
- (b) a combination meter.

1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

| | |
|-----------|--|
| AS 2345 | Dezincification resistance of copper alloys |
| AS 3565 | Meters for water supply |
| AS 3565.1 | Part 1: Cold water meters |
| AS 4020 | Testing of products for use in contact with drinking water |
| AS 4087 | Metallic flanges for waterworks purposes |