

Australian Standard[®]

Meters for non-urban water supply

**Part 3: Technical requirements for open
channel meters**



This Australian Standard® was prepared by Committee CE-024, Measurement of Water Flow in Open Channels and Closed Conduits. It was approved on behalf of the Council of Standards Australia on 9 January 2013.
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The following are represented on Committee CE-024:

- Australian Industry Group
 - Australian Water Association
 - Department of Environment and Resource Management, Qld
 - Institute of Instrumentation, Control and Automation Australia
 - Irrigation Australia
 - National Farmers Federation
 - National Irrigators Council
 - National Measurement Institute
 - University of South Australia
 - Water Services Association of Australia
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This Standard was issued in draft form for comment as DR AS 4747.3.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Part 3: Technical requirements for open channel meters

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PREFACE

This Standard was prepared by the Standards Australia Committee CE-024, Measurement of Water Flow in Open Channels and Closed Conduits, to supersede ATS 4747.3—2008, *Meters for non-urban water supply, Part 3: Specification for open channels*.

The objective of the 4747 series of standards is to provide requirements for the installation and commissioning of irrigation and non-urban water meters to meet the requirements of the National Water Initiative Clause 88.

NMI M11-1, *Meters Intended for the Metering of Water in Open Channels and Partially Filled Pipes, Part 1: Metrological and Technical Requirements*, specifies the metrological and technical requirements for pattern approval and verification of water meters to comply with the National Measurement Regulations.

This Standard includes essential requirements that are up to date with current progress in the water meter industry technology.

This document is part of a series of Standards covering the metering of non-urban water supply, as follows:

AS

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|--------|---|
| 4747 | Meters for non-urban water supply |
| 4747.1 | Part 1: Glossary of terms |
| 4747.2 | Part 2: Technical requirements for closed conduit meters fully charged |
| 4747.3 | Part 3: Technical requirements for open channel meters(this Standard) |
| 4747.5 | Part 5: Installation and commissioning of closed conduit meters fully charged |
| 4747.6 | Part 6: Installation and commissioning of open channel meters |
| 4747.8 | Part 8: In-service compliance for non-urban water meters |

The above documents were originally released as Australian Technical Specifications for a period of over two years. Following review and consideration of industry feedback, they have been revised and released as Standards.

Significant changes to the series include the following:

- (a) The method of handling meters that are beyond the limit of what can be practicably pattern-approved has been revised, which applies to AS 4747.2 and AS 4747.3.
- (b) Overlap with the National Measurement Institute (NMI) documents has also been removed, and those documents are to be read in conjunction with the above Standards.

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. An 'informative' appendix is for information and guidance only.

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