

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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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

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.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE.....	4
1.2 APPLICATION	4
1.3 NORMATIVE REFERENCES	5
1.4 DEFINITIONS.....	6
1.5 PREFERRED UNITS	6
SECTION 2 MATERIALS	
2.1 GENERAL.....	7
2.2 RESISTANCE TO CORROSION.....	7
2.3 MATERIAL DURABILITY TEST—ULTRAVIOLET LIGHT EXPOSURE	7
SECTION 3 METHODOLOGY	
3.1 GENERAL.....	8
3.2 METHODS	8
SECTION 4 PRINCIPLES OF MEASUREMENT—MODULAR METERING SYSTEMS	
4.1 REQUIREMENTS RELATED TO SPECIFIC TECHNOLOGIES	9
4.2 METERING OF PARTIALLY FILLED PIPES.....	10
4.3 MODULAR OPEN CHANNEL METERING SYSTEMS	11
4.4 VELOCITY AREA METHODS	11
4.5 FLOW COMPUTER.....	11
SECTION 5 PRINCIPLES OF MEASUREMENT—SELF-CONTAINED UNITS	
5.1 GENERAL.....	12
5.2 INSTALLATION CONDITIONS.....	12
SECTION 6 DESIGN	
6.1 OUTPUT	13
6.2 ELECTRONIC STORAGE.....	15
6.3 FREQUENCY OF MEASUREMENT	15
6.4 FROST PROTECTION.....	15
6.5 ALARM RANGE	15
6.6 LEAKAGE	15
SECTION 7 PERFORMANCE REQUIREMENTS	
7.1 GENERAL.....	16
7.2 PATHWAYS FOR COMPLIANCE WITH THIS STANDARD.....	16
7.3 MEASUREMENT OF PERFORMANCE.....	18
SECTION 8 PRODUCT DOCUMENTATION.....	21
APPENDICES	
A PURCHASING GUIDELINES.....	22
B DEMONSTRATION OF COMPLIANCE WITH THIS STANDARD	23
C EXAMPLE OF UNCERTAINTY MEASUREMENT	25
BIBLIOGRAPHY.....	28

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