

Australian Standard[®]

Meters for non-urban water supply

**Part 8: In-service compliance for
non-urban water 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 4 February 2013.
This Standard was published on 21 February 2013.

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
-

This Standard was issued in draft form for comment as DR AS 4747.8.

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.

Keeping Standards up-to-date

Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting www.standards.org.au

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

AS 4747.8—2013

Australian Standard[®]

Meters for non-urban water supply

Part 8: In-service compliance for non-urban water meters

First published as ATS 4747.8—2010.
Revised and redesignated AS 4747.8—2013.

COPYRIGHT

© Standards Australia Limited

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968.

Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 978 1 74342 357 8

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 4747.8—2010, *Meters for non-urban water supply, Part 8: In-service compliance for non-urban water meters*.

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.

The objective of this part of the 4747 series of Standards is to provide requirements for the implementation of a framework involving accredited personnel, initial and ongoing validation of installation and maintenance to provide metrological assurance of in-service, non-urban water meters and to maintain progress with technology in the water meter industry.

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
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 (this Standard)

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 methods 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 the NMI 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, whereas 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	5
1.3 NORMATIVE REFERENCES	5
1.4 DEFINITIONS.....	5
1.5 PREFERRED UNITS	6
SECTION 2 COMPLIANCE REGIME—METROLOGICAL ASSURANCE FRAMEWORK	
2.1 GENERAL.....	7
2.2 METER SELECTION	7
2.3 INSTALLATION	7
2.4 VALIDATION (POST INSTALLATION/ONGOING)	7
2.5 IN SITU VOLUMETRIC MEASUREMENT	9
2.6 RE-VERIFICATION	9
2.7 MAINTENANCE	10
APPENDICES	
A METROLOGICAL ASSURANCE FRAMEWORK	12
B EXAMPLE OF A VALIDATION FORM.....	14
C MAINTENANCE COMPETENCIES AND ACTIVITIES	16
D EXAMPLE OF METER PREVENTIVE MAINTENANCE SCHEDULES.....	18
E IN SITU VOLUMETRIC MEASUREMENT	19
BIBLIOGRAPHY	25

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-