

Australian Technical Specification

Meters for non-urban water supply

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



This Australian Technical Specification 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 22 June 2010.

This Technical Specification was published on 4 August 2010.

The following are represented on Committee CE-024:

- Australian Industry Group
 - Department of Natural Resources and Water, Qld
 - Institute of Instrumentation, Control and Automation, Australia
 - Irrigation Australia
 - National Measurement Institute
 - NSW Department of Commerce
 - University of South Australia
 - Water and Wastewater Association of Australia
-

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Technical Specification through their representation on the Committee.

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Standards may also be withdrawn.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.

Australian Technical Specification

Meters for non-urban water supply

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

First published as ATS 4747.8—2010.

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 0 7337 9649 4

PREFACE

This Australian Technical Specification was prepared by the Standards Australia Committee CE-024, Measurement of Water Flow in Open Channels and Closed Conduits.

The objective of the Australian Technical Specification series is to provide manufacturers with requirements for irrigation and non-urban water meters to meet the requirements of the National Water Initiative Clause 88.

The objective of this part of the Australian Technical Specification series is to enable presents requirements for the implementation of a framework involving accredited personnel, initial and on-going validation of installations and maintenance to provide metrological assurance of in-service, non-urban water meters.

This Australian Technical Specification includes essential requirements to maintain progress with technology in the water meter industry.

This document is part of a suite of Australian Technical Specifications covering the metering of non-urban water supply, as follows:

ATS

- 4747 Meters for non-urban water supply
- 4747.1 Part 1: Glossary of terms
- 4747.2 Part 2: Specification for closed conduit meters fully charged
- 4747.3 Part 3: Specifications 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 ATS)

The ATS 4747 suite is being published in the first instance as an Australian Technical Specification. Following a period of trial and review of no more than 2 years, it is intended to republish it as an Australian Standard.

The terms ‘normative’ and ‘informative’ have been used in this Australian Technical Specification to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of an Australian Technical Specification, 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	4
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 REVERIFICATION	9
2.7 TESTING OF METERS FOR PURPOSES OTHER THAN REVERIFICATION	10
2.8 MAINTENANCE	10
APPENDICES	
A METROLOGICAL ASSURANCE FRAMEWORK	12
B EXAMPLE OF A VALIDATION FORM	16
C MAINTENANCE COMPETENCIES AND ACTIVITIES	18
D EXAMPLE OF METER PREVENTATIVE MAINTENANCE SCHEDULES	19
E IN SITU VOLUMETRIC MEASUREMENT	20
BIBLIOGRAPHY	26

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](#)
-