

Australian/New Zealand Standard™

**Gas meters—In-service compliance  
testing**



## **AS/NZS 4944:2006**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-011, Electricity Metering Equipment. It was approved on behalf of the Council of Standards Australia on 30 November 2005 and on behalf of the Council of Standards New Zealand on 9 December 2005.

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**RECONFIRMATION**  
**OF**  
**AS/NZS 4944:2006**  
**Gas meters—In-service compliance testing**

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## NOTES

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-011, Electricity Metering Equipment through its Subcommittee EL-011-02—In-service compliance of electricity and gas meters.

The objective of this Standard is to provide the gas metering industry with guidance for the timely sampling, testing and assessment of in-service compliance of populations of gas meters.

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is only for information and guidance.

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## FOREWORD

This Standard is intended to provide a basis for the maintenance of the metrological performance (in-service compliance) of gas meters by utilities and metering providers. It forms the basis for a performance based asset management scheme.



## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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**Gas meters—In-service compliance testing**

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**1 SCOPE**

This Standard specifies requirements for the timely sampling, testing, and assessment of in-service compliance of populations of diaphragm gas meters with a maximum flow rate of up to and including 25 m<sup>3</sup>/h used for fiscal measurements.

**2 APPLICATION**

This Standard is intended for use by utilities or meter providers responsible for maintaining metrological performance (in-service compliance) of meters throughout the life of the meters. It does not apply to—

- (i) meter populations that are not large enough to provide a statistically meaningful sample;
- (ii) meters that have been tampered with or damaged;
- (iii) other devices such as volume correctors or pressure regulators.

**3 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard

## AS

- |        |   |
|--------|---|
| 1199   | Sampling procedures and tables for inspection by attributes   |
| 1199.1 | Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection          |
| 2490   | Sampling procedures and charts for inspection by variables for percent nonconforming                  |
| 4647   | Domestic diaphragm gas meters   |
| ISO    |   |
| 2854   | Statistical interpretation of data—Techniques of estimation and tests relating to means and variances |
| 2859   | Sampling procedures for inspection by attributes  |
| 2859-1 | Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection          |

**4 DEFINITIONS**

For the purpose of this Standard, the definitions below apply.

**4.1 Definitions relating to meters****4.1.1 Gas meter**

Gas meters in accordance with this Standard shall be diaphragm gas volume meters in which the gas volume is measured by means of measuring chambers with deformable walls.