

ISBN 978-0-626-35784-9

**SANS 1524-1-2:2018**

Edition 1.1  
Amdt 1

# **SOUTH AFRICAN NATIONAL STANDARD**

## **Electricity payment systems**

### **Part 1-2: Surge protective devices for the protection of payment meters**

**WARNING**

This document references other documents normatively.

Published by the South African Bureau of Standards  
1 Dr Lategan Road Groenkloof ☒ Private Bag X191 Pretoria 0001  
Tel: +27 12 428 7911 Fax: +27 12 344 1568

[www.sabs.co.za](http://www.sabs.co.za)

© SABS

**SABS**

This page has been left blank intentionally



## **COPYRIGHT PROTECTED DOCUMENT**

© SABS

In terms of the Standards Act 8 of 2008, the copyright in all South African National Standards or any other publications published by the SABS Standards Division, vests in the SABS. Any use of South African National Standards is limited to use specifically prescribed by the SABS. In the case of a South African National Standard based on an international standard, ownership of the copyright vests in the organization from which the SABS adopted the standard, whether it be under licence or membership agreement. The SABS is obliged to protect such copyright and is authorized to make the relevant international organization aware of any misuse thereof. Unless exemption has been granted, no extract or full text of any South African National Standard may be copied, reproduced, stored in a retrieval system or transmitted in any form or by any means without prior written permission from the SABS Standards Division. This does not preclude the free use, in the course of implementing the standard, of necessary details such as symbols, and size, type or grade designations. If these details are to be used for any purpose other than implementation, prior written permission must be obtained.

Details, advice and limitations of use can be obtained from the Manager: Standards Sales and Information Services. Tel: +27 (0) 12 428 6883 email: [sales@sabs.co.za](mailto:sales@sabs.co.za)

### **SABS – Standards Division**

The objective of the SABS Standards Division is to develop, promote and maintain South African National Standards. This objective is incorporated in the Standards Act, 2008 (Act No. 8 of 2008).

The SABS continuously strives to improve the quality of its products and services and would therefore be grateful if anyone finding an inaccuracy or ambiguity while using this standard would inform the secretary of the technical committee responsible, the identity of which can be found in the foreword.

### **Buying Standards**

Contact the Sales Office for South African and international standards, which are available in both electronic and hard copy format. Tel: +27 (0) 12 428 6883 email: [sales@sabs.co.za](mailto:sales@sabs.co.za)

South African National Standards are also available online from the SABS Webstore [www.store.sabs.co.za](http://www.store.sabs.co.za)

### **Information on Standards**

SABS Customer Services provide comprehensive standards-related information on national, regional and international standards. Tel: +27 (0) 12 428 7911 / 0861 27 7227 email: [info@sabs.co.za](mailto:info@sabs.co.za)

### Table of changes

Change No.	Date	Scope
Amdt 1	2018	Amended to change the designation "SANS 1524-1-2/NRS 009-1-2" to read "SANS 1524-1-2", and to update referenced standards.

## Foreword

This South African standard was prepared by National Committee SABS/TC 062, *Electrical energy measurement and control*, in accordance with procedures of the South African Bureau of Standards, in compliance with annex 3 of the WTO/TBT agreement.

This document was approved for publication in June 2018.

This document supersedes SANS 1524-1-2:2012 (edition 1).

A vertical line in the margin shows where the text has been technically modified by amendment No. 1.

**This document is referenced in the Local Government Municipality Systems Act, 2000 (Act No. 32 of 2000).**

SANS 1524 consist of the following documents available under the general title *Electricity payment systems*:

**Amdt 1**

*Part 1: Payment meters.*

*Part 1-1: Mounting and terminal requirements for payment meters.*

*Part 1-2: Surge protective devices for the protection of payment meters.*

*Part 4: Payment electricity meter cards.*

*Part 6-10: Interface standards – Online vending server – Vending clients.*

*Part 8: The management of secure modules.*

*Part 9: Implementing electricity vending systems.*

Annex A forms an integral part of this document.

**Compliance with this document cannot confer immunity from legal obligations.**

## Contents

	Page
<b>1</b> Scope .....	3
<b>2</b> Normative references .....	3
<b>3</b> Terms, definitions and abbreviations .....	4
<b>4</b> Requirements.....	4
<b>4.1</b> General .....	4
<b>4.2</b> Electrical requirements.....	5
<b>4.3</b> Mechanical requirements .....	6
<b>4.4</b> Classification.....	7
<b>5</b> Tests.....	7
<b>5.1</b> Type tests .....	7
<b>5.2</b> Routine tests .....	8
<b>6</b> Marking.....	8
<b>Annex A</b> (normative) Payment meter socket .....	9