

BS ISO 19449:2015



BSI Standards Publication

Mopeds — Measurement methods for gaseous exhaust emissions during inspection or maintenance

bsi.

...making excellence a habit.™

National foreword

This British Standard is the UK implementation of ISO 19449:2015.

The UK participation in its preparation was entrusted to Technical Committee AUE/14, Motor cycles and mopeds.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2015.
Published by BSI Standards Limited 2015

ISBN 978 0 580 85459 0

ICS 13.040.50; 43.140

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 December 2015.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

INTERNATIONAL
STANDARD

BS ISO 19449:2015

ISO
19449

First edition
2015-12-01

**Mopeds — Measurement methods for
gaseous exhaust emissions during
inspection or maintenance**

*Mopeds — Méthode de mesure des émissions gazeuses au cours des
inspections ou de la maintenance*



Reference number
ISO 19449:2015(E)

© ISO 2015



COPYRIGHT PROTECTED DOCUMENT

© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Instrumentation	1
5 Check, maintenance periodicity and precautions for use of instruments	2
5.1 Check before use.....	2
5.2 Maintenance periodicity.....	2
5.3 Precautions for use.....	2
6 General moped verification	2
7 Normal conditioning of moped	3
7.1 Warming up.....	3
7.2 Test conditions.....	3
8 Gaseous exhaust emissions and corrections	3
9 Measurement methods for gaseous exhaust emissions	3
Annex A (normative) Presentation of results	5
Annex B (informative) Examples of gaseous exhaust emissions correction method	7
Bibliography	9

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 22, *Road vehicles*, Subcommittee SC 38, *Motorcycles and mopeds*.

Introduction

This International Standard specifies methods for the direct measurement of the concentration of gaseous exhaust emissions from mopeds during inspections, official roadside checks or maintenance. Although ISO 3929 specifies methods for the direct measurement of the concentration of gaseous exhaust emissions from road vehicles, this International Standard is the adaptation of ISO 3929 to comply with needs specific to mopeds.

Mopeds — Measurement methods for gaseous exhaust emissions during inspection or maintenance

1 Scope

This International Standard specifies methods for the direct measurement of the concentration of gaseous exhaust emissions from mopeds as defined in ISO 3833 during inspection or maintenance. The results measured by this International Standard show the concentration of gaseous exhaust emissions in the no-load engine operating condition. It is applicable to mopeds having spark ignition engines (four-stroke engines or two-stroke engines). These methods can be used, either totally or partially, for

- periodic inspections in official garages,
- official roadside checks, and
- maintenance and diagnostic operations.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/PAS 3930¹⁾, *Instruments for measuring vehicle exhaust emissions — Metrological and technical requirements; Metrological control and performance tests*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

idling condition

no-load operating condition of engine warmed up in accordance with 7.1 with

- no manual operation with fuel system controls (throttle, choke, etc.),
- the gear in neutral, and the manual clutch engaged for mopeds with the manual transmission,
- the parking condition for mopeds with the automatic transmission, and
- standard production equipment, accessories and optional equipment that modify the engine speed used in accordance with the manufacturer's recommendations or regulatory requirements

Note 1 to entry: Automatically operated headlamps are standard production equipment. There is a possibility that headlamp operation influences the test results of gaseous exhaust emissions.

3.2

idling speed

engine speed (range) specified by the manufacturer under the idling condition.

4 Instrumentation

The instruments listed below shall be prepared:

- 1) Joint ISO/OIML (International Organization of Legal Metrology) document.