

---

---

**Internal combustion compression-ignition  
engines — Measurement apparatus for  
smoke from engines operating under  
steady-state conditions — Filter-type  
smokemeter**

*Moteurs à combustion interne à allumage par compression — Appareillage  
de mesure de la fumée des moteurs dans les conditions stabilisées —  
Fumimètres à filtre*



## Contents

Page

|             |                                                                |          |
|-------------|----------------------------------------------------------------|----------|
| <b>1</b>    | Scope .....                                                    | <b>1</b> |
| <b>2</b>    | Normative references .....                                     | <b>1</b> |
| <b>3</b>    | Definition .....                                               | <b>2</b> |
| <b>4</b>    | Symbols .....                                                  | <b>2</b> |
| <b>5</b>    | Measurement principle .....                                    | <b>2</b> |
| <b>6</b>    | Characteristics of filter-type smokemeters .....               | <b>2</b> |
| <b>6.1</b>  | Reference conditions .....                                     | <b>2</b> |
| <b>6.2</b>  | General specifications .....                                   | <b>2</b> |
| <b>6.3</b>  | Parameters .....                                               | <b>5</b> |
| <b>7</b>    | Information required from manufacturer .....                   | <b>6</b> |
| <b>8</b>    | Operating conditions of filter-type smokemeter .....           | <b>7</b> |
| <b>8.1</b>  | Installation of filter-type smokemeter .....                   | <b>7</b> |
| <b>8.2</b>  | Sampling procedure .....                                       | <b>7</b> |
| <b>9</b>    | Maintenance of filter-type smokemeter functional ability ..... | <b>7</b> |
| <b>10</b>   | Verification of types of filter-type smokemeters .....         | <b>7</b> |
| <b>10.1</b> | Applicable procedures .....                                    | <b>7</b> |
| <b>10.2</b> | Instrumentation and checking facilities for verification ..... | <b>8</b> |
| <b>10.3</b> | Checking for verification .....                                | <b>8</b> |
| <b>10.4</b> | Measurements and calculations for verification .....           | <b>9</b> |

© ISO 1998

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization  
Case postale 56 • CH-1211 Genève 20 • Switzerland  
Internet iso@iso.ch

Printed in Switzerland