

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS A 1306 : 2014

(JTCCM)

**Measuring method of smoke density
using light extinction method**

ICS 13.220.01

Reference number : JIS A 1306 : 2014 (E)

PROTECTED BY COPYRIGHT

5 S

A 1306 : 2014

Date of Establishment: 1983-08-01

Date of Revision: 2014-12-22

Date of Public Notice in Official Gazette: 2014-12-22

Investigated by: Japanese Industrial Standards Committee
Standards Board for ISO area
Technical Committee on Architecture

JIS A 1306 : 2014, First English edition published in 2015-06

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

© JSA 2015

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.

Printed in Japan

HN

PROTECTED BY COPYRIGHT

Contents

	Page
1	Scope 1
2	Normative references 1
3	Measuring apparatus 1
4	Installation of apparatus 3
4.1	Installation method 3
4.2	Ambient temperature of apparatus 3
4.3	Prevention of smoke adhesion 3
5	Method of measurement 3
5.1	Preparation of measurement 3
5.2	Measurement 4
5.3	Calibration 4

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japan Testing Center for Construction Materials (JTCCM) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS A 1306:2008** is replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

Measuring method of smoke density using light extinction method

1 Scope

This Japanese Industrial Standard specifies the photoelectrical method using the light extinction, intended to measure the density of smoke which is generated with the combustion during the combustibility test of building materials.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS C 7709-1 *Lamp caps and holders together with gauges for the control of interchangeability and safety Part 1 : Lamp caps*

JIS C 7709-2 *Lamp caps and holders together with gauges for the control of interchangeability and safety Part 2 : Lampholders*

JIS C 7710 *Designation method for glass bulbs of lamps*

JIS Z 8703 *Standard atmospheric conditions for testing*

3 Measuring apparatus

3.1 Construction The measuring apparatus shall consist of a light source, light receptor, light stop, constant voltage power source, and indicator (see Figure 1). The light from its source shall be placed to be incident upon the light receptor through the smoke to be measured. During the use of apparatus, the light source and light receptor shall be fixed to prevent the optical axis run-out.

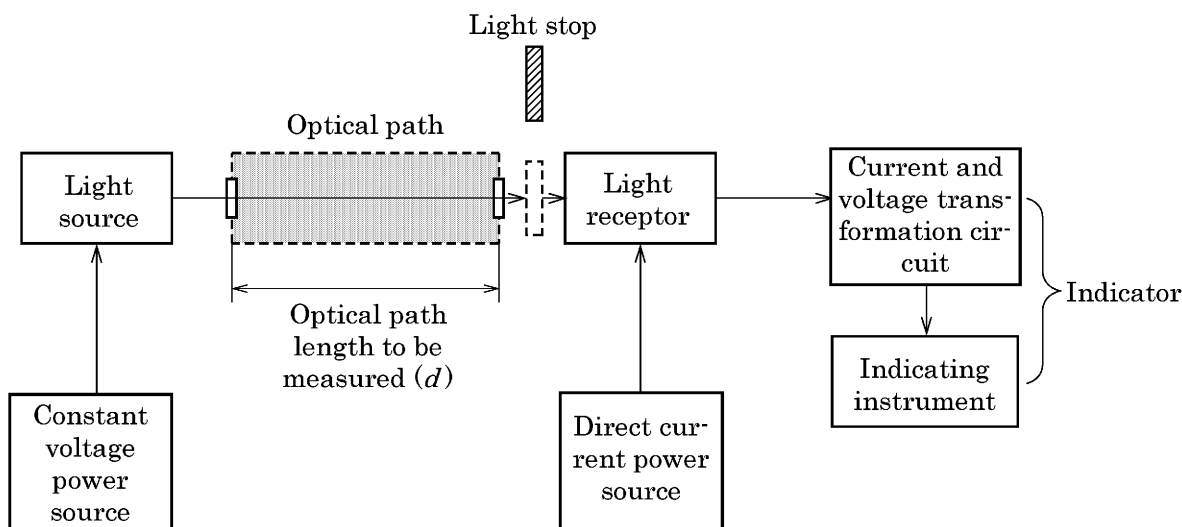


Figure 1 Construction of measuring apparatus (example)