
**Time-measuring instruments —
Photoluminescent deposits — Test
methods and requirements**

*Instruments de mesure du temps — Dépôts photoluminescents —
Méthodes d'essai et exigences*



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

This document is a preview generated by EVS

© ISO 2004

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 either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 17514 was prepared by Technical Committee ISO/TC 114, *Horology*, Subcommittee SC 5, *Luminescence*.

This document is a preview generated by EVS

Time-measuring instruments — Photoluminescent deposits — Test methods and requirements

1 Scope

This International Standard specifies the test methods of various aspects of the photoluminescent deposits applied to time-measuring instruments, together with the requirements related to them.

2 Normative references

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

ISO 3157:1991, *Radioluminescence for time measurement instruments — Specifications*

3 Terms and definitions

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

3.1

photoluminescent deposit

non-radioactive substance applied to a support, which is able to accumulate energy and release it as light

3.2

luminance

ratio of the light intensity to the surface unit of emission for a remote observer

NOTE This is expressed as nanocandelas per square centimetre (ncd/cm^2).

3.3

luminance degradation coefficient

decrease of luminance as a function of time

3.4

legibility

ability of the luminescent item to be seen distinctly

3.5

legibility limit

minimum luminous intensity with which the luminescent item can be seen distinctly

3.6

luminous intensity

the light intensity for a remote observer

NOTE This is expressed in ncd .