

This is a preview of "ISO 2954:2012". [Click here to purchase the full version from the ANSI store.](#)

Second edition
2012-04-01

Mechanical vibration of rotating and reciprocating machinery — Requirements for instruments for measuring vibration severity

*Vibrations mécaniques des machines tournantes ou alternatives —
Exigences relatives aux appareils de mesure de l'intensité vibratoire*



Reference number
ISO 2954:2012(E)

© ISO 2012

This is a preview of "ISO 2954:2012". [Click here to purchase the full version from the ANSI store.](#)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2012

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

This is a preview of "ISO 2954:2012". [Click here to purchase the full version from the ANSI store.](#)

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Measurement quantities	1
5 General requirements	2
6 Requirements for the vibration transducer and connecting cable	7
7 Requirements for the indicating unit	8
8 Power requirements	9
9 Instruction manual	9
Annex A (informative) Method for testing r.m.s.-voltage indicators	10
Bibliography	13

This is a preview of "ISO 2954:2012". [Click here to purchase the full version from the ANSI store.](#)

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 2954 was prepared by Technical Committee ISO/TC 108, *Mechanical vibration, shock and condition monitoring*, Subcommittee SC 3, *Use and calibration of vibration and shock measuring instruments*.

This second edition cancels and replaces the first edition (ISO 2954:1975), which has been technically revised.

The main changes are:

- Filters defined as standardized third-order Butterworth filters.
- The standard now covers other frequency ranges than 10 Hz to 1 000 Hz.