
**Road vehicles — Ergonomic aspects
of transport information and control
systems — Specifications for in-vehicle
auditory presentation**

*Véhicules routiers — Aspects ergonomiques des systèmes de
commande et d'information du transport — Spécifications concernant la
présentation des informations auditives à bord du véhicule*





COPYRIGHT PROTECTED DOCUMENT

© ISO 2011

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

Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Signal specifications	3
4.1 Spectrum	3
4.2 Signal levels	4
5 Coding of information	5
5.1 General	5
5.2 Temporal classification of auditory signals	5
5.3 Non-speech coding — Tonal signals	6
5.4 Speech coding	6
6 Prioritization of auditory signals	7
7 Safety warning auditory signals	7
7.1 Redundancy	7
7.2 Compliance	8
Annex A (normative) Masked specific loudness SNR procedure	9
Annex B (informative) Converting between SPL and specific loudness	13
Bibliography	14