

INTERNATIONAL
STANDARD

ISO
7240-4

Second edition
2017-11

**Fire detection and alarm systems —
Part 4:
Power supply equipment**

*Systèmes de détection et d'alarme d'incendie —
Partie 4: Équipement d'alimentation électrique*



Reference number
ISO 7240-4:2017(E)

© ISO 2017



COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

	Page
Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and abbreviated terms	2
4.1 Symbols	2
4.2 Abbreviated terms	2
5 Requirements	2
5.1 General	2
5.2 Compliance	2
5.3 Power sources	3
5.3.1 General	3
5.3.2 Main power source	3
5.3.3 Standby power source	3
5.4 Charger	4
5.5 Faults	4
5.6 Mechanical	5
5.7 Power supply interface	5
5.8 Software	5
5.8.1 General	5
5.8.2 Program monitoring	5
5.8.3 Storage of programs and data	6
5.8.4 Monitoring of memory contents	6
6 Tests	6
6.1 General	6
6.1.1 Standard atmospheric conditions for testing	6
6.1.2 Mounting and orientation	7
6.1.3 Electrical connection	7
6.2 Functional tests	7
6.2.1 The object of test	7
6.2.2 Test schedule	7
6.2.3 Full functional test	8
6.2.4 Reduced functional test	9
6.3 Charger and the standby power source test	10
6.3.1 Test procedure	10
6.3.2 Requirements	10
6.4 High battery impedance test	10
6.4.1 Object of test	10
6.4.2 General	10
6.4.3 Test procedure for non-integrated PSE	10
6.4.4 Requirements for integrated PSE	11
6.4.5 Test procedure for integrated PSE	11
6.4.6 Requirements for integrated PSE	12
6.5 Environmental tests	12
6.5.1 General	12
6.5.2 Tests for one specimen	13
6.5.3 Tests for more than one specimen	13
6.5.4 Requirements	13
6.6 Cold (operational)	14
6.6.1 Object of test	14
6.6.2 Test procedure	14