



BSI Standards Publication

Ships and marine technology - Specifications for gas detectors intended for use on board ships

Part 1: Portable gas detectors for atmosphere testing of enclosed spaces

National foreword

This British Standard is the UK implementation of ISO 19891-1:2017. It supersedes PD ISO/PAS 19891-1:2016, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee SME/32, Ships and marine technology - Steering committee.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2017
Published by BSI Standards Limited 2017

ISBN 978 0 580 94911 1

ICS 47.020.01; 13.220.20

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 September 2017.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

**Ships and marine technology —
Specifications for gas detectors
intended for use on board ships —**

**Part 1:
Portable gas detectors for atmosphere
testing of enclosed spaces**

*Navires et technologie maritime — Spécifications pour les détecteurs
de gaz destinés à être utilisés à bord des navires —*

*Partie 1: Détecteurs de gaz portables pour les essais atmosphériques
des espaces clos*



Reference number
ISO 19891-1:2017(E)

AVA Documents
Document Sharing Hub
© 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	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Specification of portable gas detectors for atmosphere testing of enclosed spaces	2
4.1 General requirements.....	2
4.1.1 Gases required to be measured.....	2
4.1.2 Method of measurement.....	3
4.1.3 Basic performance.....	3
4.1.4 Portability.....	4
4.2 Sensitivities, indications, and alarms.....	4
4.3 Robustness and electrical safety.....	4
4.4 Marking and manual.....	4
4.4.1 Marking.....	4
4.4.2 Instruction manual.....	5
4.4.3 Testing.....	5