
**Ships and marine technology —
Hopper dredger supervisory and
control systems**



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Contents

	Page
Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms, definitions and abbreviated terms	1
3.1 Terms and definitions	1
3.2 Abbreviated terms	2
4 Components and structure	2
4.1 Components	2
4.2 Structure	3
5 General requirements	3
5.1 Operating position and control mode	3
5.1.1 Operating position	3
5.1.2 Control mode	3
5.2 External communication	3
5.3 Diagnostic	3
5.4 HMI graphics	4
5.4.1 Alarm level	4
5.4.2 Conventions on graphic colours	4
5.4.3 Brightness of the HMI	4
6 Functional requirements	4
6.1 STPM/STWC	4
6.1.1 Preset	4
6.1.2 Operation	5
6.1.3 Controller	5
6.1.4 Display	5
6.1.5 Alarm	5
6.1.6 Calibration	5
6.2 DSLS	5
6.2.1 Preset	5
6.2.2 Operation	6
6.2.3 Controller	6
6.2.4 Display	6
6.2.5 Alarm	6
6.2.6 Calibration	6
6.3 Unloading system	6
6.3.1 Preset	6
6.3.2 Operation	6
6.3.3 Display	7
6.3.4 Alarm	7
6.4 Dredge pump system	7
6.4.1 Operation	7
6.4.2 Controller	7
6.4.3 Display	7
6.4.4 Alarm	7
6.5 Jet water system	8
6.5.1 Preset	8
6.5.2 Operation	8
6.5.3 Display	8
6.5.4 Alarm	8
6.6 Dredge valve system	8
6.6.1 Preset	8

6.6.2	Operation.....	8
6.6.3	Display	8
6.6.4	Alarm.....	9

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document describes the supervisory and control system for a number of components, functions and systems that can, but do not have to, be installed on board of a hopper dredger. It does not prescribe that all described components, functions and systems need to be installed.

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Ships and marine technology — Hopper dredger supervisory and control systems

1 Scope

This document specifies the components and structure, general requirements, and functional requirements of trailing suction hopper dredger supervisory and control systems.

It is applicable only to the installed components, functions or systems. It covers design, manufacture and modification.

2 Normative references

The following referenced documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 8384, *Ships and marine technology — Dredgers — Vocabulary*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purpose of this document, the terms and definitions given in ISO 8384 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1.1

hopper dredger supervisory and control system

HD-SCS

system used for supervising and controlling the dredging operations of a hopper dredger

3.1.2

suction tube position monitor

STPM

system used for supervising and controlling the suction tube operation, displaying the movement and position of the suction tube

3.1.3

depth of draghead

distance from the water surface to the lower edge of the draghead

3.1.4

draught and soil loading system

DSLS

system used to display and record the draught and soil load