ISO 8310:2012-11 (E)

Refrigerated hydrocarbon and non-petroleum based liquefied gaseous fuels - General requirements for automatic tank thermometers on board marine carriers and floating storage

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Safety precautions 2
4.1 General 2
4.2 Equipment precautions 3

5 Design requirements 3
5.1 General 3
5.2 Temperature sensors 3
5.3 Indicating device 4
5.4 Installation 4
5.5 Provisions for routine maintenance and verification 4
5.6 Provision against sudden malfunctions 4
5.7 Dynamic response 4
5.8 Measurable range 4
5.9 Data processing and reporting 4
5.10 Compensation for variation of cargo temperatures 5
5.11 Sealing, security and unsealing 5
5.12 Redundancy 5
5.13 Data communication 5

6 Calibration and accuracy verification 5
6.1 General 5
6.2 Calibration reference 6
6.3 Calibration and accuracy verification at factory 6
6.4 Calibration and accuracy verification after installation 6
6.5 Periodic accuracy verification 9

7 Accuracy requirement 9
7.1 Overall error 9
7.2 Resolution 10

8 ATT calibration records 10

Annex A (informative) Information on platinum resistance thermometers 11

Bibliography 12