

Specification for

Distant indicating thermometers for ships' refrigerated cargo spaces

Co-operating organizations

The Instrument Industry Standards Committee, under whose supervision this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:

- Association of Scientific Workers
- British Ceramic Research Association
- British Clock and Watch Manufacturers Association
- British Electrical and Allied Industries Research Association
- British Electrical and Allied Manufacturers Association*
- British Industrial Measuring and Control Apparatus Manufacturers Association*
- British Iron and Steel Federation*
- British Nautical Instrument Trade Association
- British Railways, The British Transport Commission
- British Scientific Instrument Research Association*
- Council of British Manufacturers of Petroleum Equipment
- Electricity Council, the Generating Board and the Area Boards in England and Wales*
- Electronic Engineering Association
- Engineering Equipment Users Association*
- Gauge and Tool Makers Association
- Institute of Physics
- Institution of Chemical Engineers
- Institution of Electrical Engineers*
- Institution of Heating and Ventilating Engineers
- Institution of Mechanical Engineers*
- Iron and Steel Institute
- Meteorological Office
- Ministry of Health
- Ministry of Housing and Local Government
- National Coal Board
- National Physical Laboratory (D.S.I.R.)*
- Oil Companies Materials Association*
- Scientific Instrument Manufacturers Association*
- Society of Instrument Technology
- War Office*
- Water-tube Boilermakers Association

The Government departments and scientific and industrial organizations marked with an asterisk in the above list, together with the following were directly represented on the committees entrusted with the preparation of this standard:

- Admiralty
- British Coal Utilization Research Association
- Gas Council
- Institute of Marine Engineers
- Lloyds Register of Shipping
- Ministry of Aviation
- Ministry of Power
- Physical Society
- Refrigerated Cargo Research Council
- Society of Chemical Industry
- Manufacturers of instruments

This British Standard, having been approved by the Instrument Industry Standards Committee and endorsed by the Chairman of the Engineering Divisional Council, was published under the authority of the General Council on 30 September 1960

© BSI 12-1999

The following BSI references relate to the work on this standard:
Committee references INE/4 and INE/4/5
Draft for comment CY(INE) 8917

ISBN 0 580 34072 4

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
Co-operating organizations	Inside front cover
Foreword	ii
Section 1. General	
1 Scope	1
2 Definitions	1
3 General design	1
4 Range	1
5 Graduation	1
6 Accuracy	1
7 Manufacturer's certificate	1
Section 2. Additional requirements for a distant indicating thermometer of the electrical resistance type	
8 Thermometer element	2
9 Types of solder	2
10 Self-heating elements	2
11 Galvanometer or equivalent instruments	2
Section 3. Additional requirements for a distant indicating thermometer of the liquid expansion type	
Appendix A Referee method for calibration of electrical distant indicating thermometers	4
Appendix B Recommendations for the installation and testing of distant indicating thermometers on board ship	4

Foreword

This standard makes reference to the following British Standards:

BS 205, *Glossary of terms used in electrical engineering*.

BS 350, *Conversion factors and tables*.

BS 441, *Rosin-cored solder wire*.

BS 883, *Cables and flexible cords for electrical equipment of ships*.

BS 1584, *Glossary of terms used in refrigeration*.

BS 2643, *Terms relating to the performance of measuring instruments*.

BS 2765, *Dimensioning system and terminology for industrial temperature-detecting elements and pockets*.

BS 2817, *Types of enclosure of electrical apparatus*.

This British Standard has been prepared under the authority of the Instrument Industry Standards Committee at the request of the Refrigerated Cargo Research Council.

This standard is intended to meet normal requirements for indicating thermometers for use in ships' refrigerated cargo spaces, and to meet the demand for good quality thermometers covering the most commonly used ranges of temperature.

Attention is drawn to the fact that nothing in the specification supersedes the necessity, in appropriate cases, for complying with the requirements of the Classification Societies.

NOTE Where metric equivalents are stated the figures in British units are to be regarded as the standard. The metric conversions are approximate. More accurate conversions should be based on the tables in BS 350, "Conversion factors and tables".

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.