Indian Standard

SPECIFICATION FOR GENERAL PURPOSE GLASS THERMOMETERS

PART I SOLID-STEM THERMOMETERS

0. FOREWORD

0.1 This Indian Standard (Part 1) (Second Revision) was adopted by the Indian Standards Institution on 29 July 1983, after the draft finalized by the Laboratoryware and Related Apparatus Sectional Committee had been approved by the Chemical Division Council.

0.2 This standard was first published in 1964 under the title 'General purpose glass thermometers' and was revised in 1973. However, in view of the experience gained during the years in the fabrication and use of thermometers and publication of International Standards on the same subject by International Organization for Standardization (ISO), the Committee responsible for the preparation of the standard, decided to again revise it. In this second revision, the standard has been prepared into two parts, Part 1 covers solid-stem type and Part 2 covers enclosed-scale type thermometers which were previously not covered in the standard.

0.3 This standard (Part 1) is based on ISO 1770-1981 Solid-stem general purpose thermometers, but it also covers partial immersion thermometers which are not covered in the ISO document.

0.4 The Committee while preparing this standard decided to cover the requirements of long solid-stem, short solid-stem, long enclosed-scale and short enclosed-scale thermometers for precision use in a separate standard. Requirements of reference thermometers meant for use in calibrating liquid-in-glass thermometers have been specified in IS : 4825-1982*. The requirement on principles of design, construction and use of liquid-in-glass thermometers of solid-stem have been specified in IS : 8787-1977†.

1. SCOPE

1.1 This standard (Part 1) prescribes the requirements for solid-stem general purpose liquid-in-glass thermometers graduated for vertical total and partial immersion, covering the overall range from —100°C to +500°C.

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*Specification for liquid-in-glass solid stem reference thermometers (*first revision*).
†Principles of design, construction and use of liquid-in-glass thermometers.