

(PREVIEW)

*Indian Standard***SPECIFICATION FOR
DC MOVING COIL GALVANOMETERS****0. FOREWORD**

0.1 This Indian Standard was adopted by the Indian Standards Institution on 8 July 1963, after the draft finalized by the Electrical Instruments and Meters Sectional Committee had been approved by the Electrotechnical Division Council.

0.2 Galvanometers with widely differing characteristics are required for many types of applications requiring indication of very small current, voltage or charge. DC moving coil galvanometers are used both as null indicators and as deflectional instruments. Due to their application in many holds and the likelihood of considerable demand for them, this standard has been prepared to assist the indigenous manufacturers in achieving the required quality of the product.

0.3 Galvanometers may be of pivoted or suspended types, with a mechanical or optical pointer system. Basically a galvanometer works on the same principle as a DC moving coil instrument but in the former the scales are only marked in convenient divisions and not in any electrical quantity, the important requirement being the sensitivity rather than long-term stability of readings. The requirements for the galvanometers are, therefore, quite different from those for the indicating instruments mentioned above.

0.4 The introduction of climatic tests for DC moving coil galvanometers is receiving attention and it might be possible to include them at a later date if the results of the investigations being carried out so indicate.

0.5 Wherever a reference to any Indian Standard appears in this specification, it shall be taken as a reference to the latest version of the standard.

0.6 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS: 2-1960 Rules for Rounding Off Numerical Values (*Revised*). The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

IS: 2442 - 1963

0.7 This standard is chiefly intended to cover the technical provisions relating to the DC moving coil galvanometers, and it does not include all the necessary provisions of a contract.

1. SCOPE

1.1 This standard gives the definitions of terms, requirements and tests for DC moving coil galvanometers. Both pivoted and suspended types of galvanometers with either mechanical or optical pointer systems are covered.