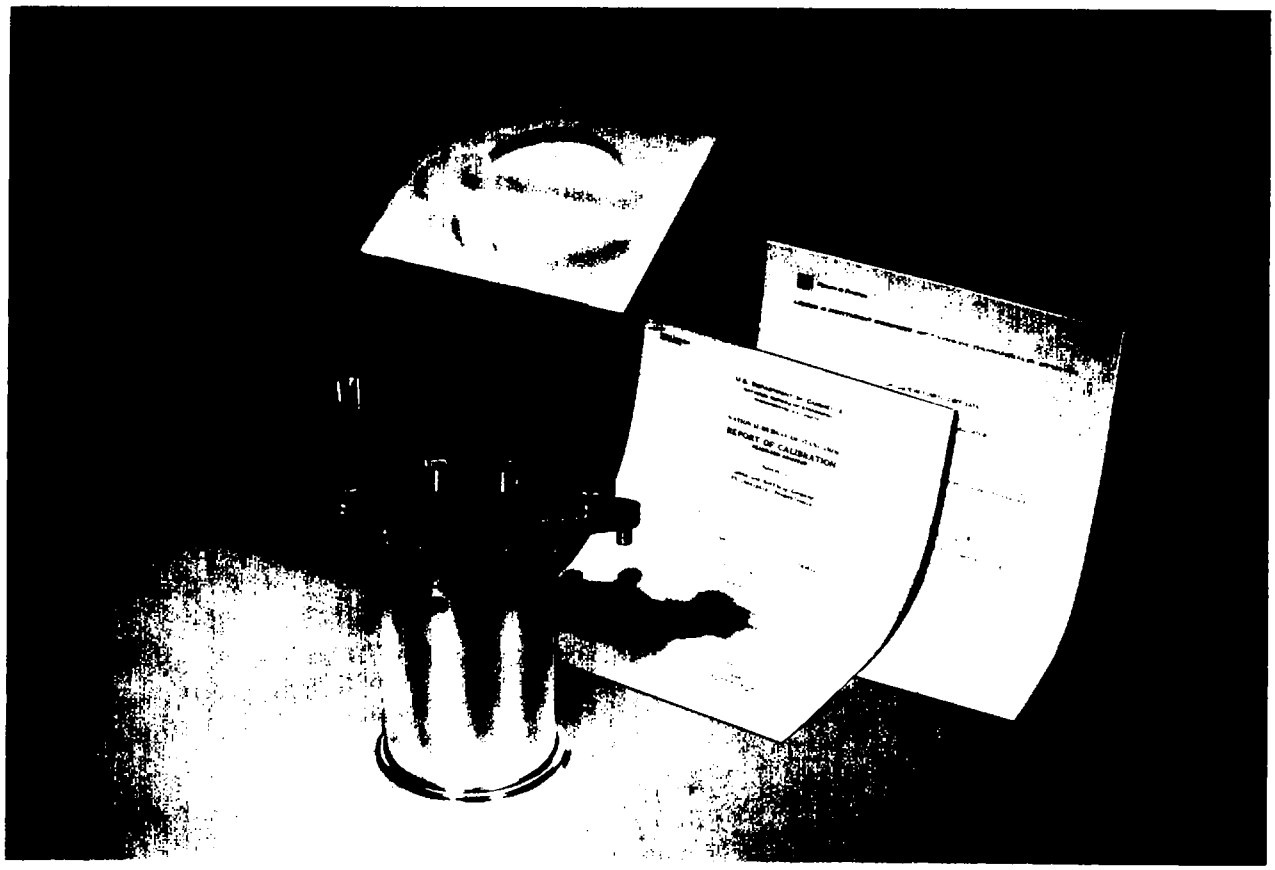
4210 Thomas-Type One-Ohm Standard



Prime standard for use in maintaining value of the ohm. The resistance element consists of specially selected wire, made to L&N's exacting specifications.

- **Measured value accurate to one part per million.**
- **NBS report of calibration available.**

SPECIFICATIONS

Catalog Numbers 4210-B: Includes Items (a) & (b) 4210-C1: Includes Items (a), (b), & (c).

(a) L&N Report of Value which states the measured value to 0.1 part per million (0.000 01%) at 25.0° C, accurate to 0.5 part per million (0.000 05%) and includes the alpha and beta values for the R_t equation. Also includes statement regarding the minor effect of changes in barometric pressure.

(b) A computer-calculated tabulation of resistance change from 25° C for every 0.1° C between 18 and 30° C. The change is expressed in parts per million and is listed in the table to the nearest 0.1 ppm

(c) NBS Report of Value which states the measured value to 0.01 part per million at 25.00° C, accurate to 0.08 part per million (0.000 008%). Also includes statement regarding the minor effect of changes in barometric pressure.

Resistance Adjusted to one absolute ohm between potential leads.

Limit of Error Adjusted within 5 parts per million (0.0005%) of nominal value at 25 C.

Stability Typically does not exceed 1 part per million per year under conditions of normal use.

Current Rating 0.1 ampere in stirred oil.

Connections Four-terminal, current/potential type. Resistance of current and potential leads, approximately 0.0011 to 0.0013 ohm each.

Protective Case A special carrying case is supplied containing a foam polystyrene form to hold the unit firmly in place.

Dimensions 7" (w) x 6½" (h) x 3¾" (OD) (178 x 165 x 95 mm).

Weight 3 lb (1.4 kg), packaged for shipment, 9¼ lb (4.2 kg).

HOW TO ORDER Specify catalog number.

For more information, see Data Sheet A5.1111.