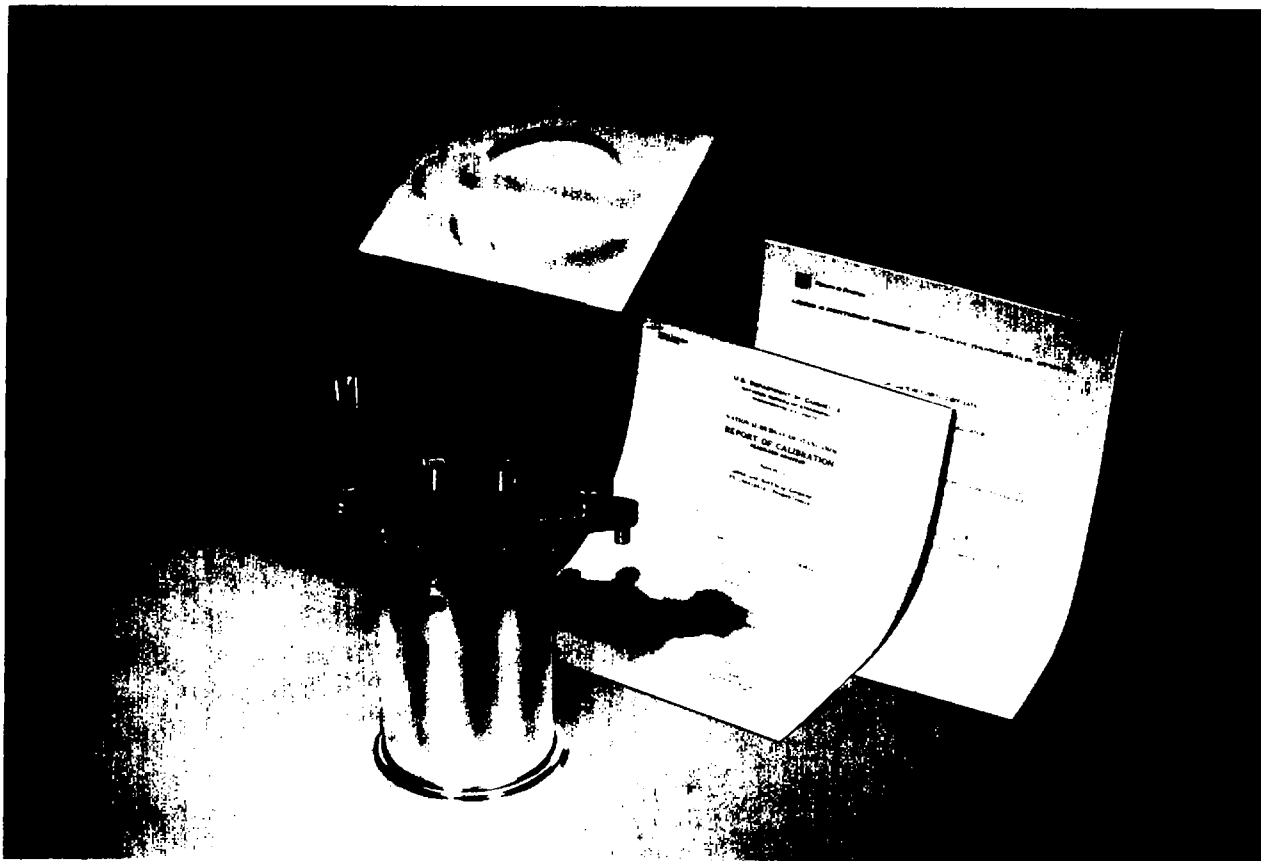


# 4210 Thomas-Type One-Ohm Standard



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).

- L&N Report of Value which states the measured value to 0.1 part per million (0.00001%) at 25.0° C, accurate to 0.5 part per million (0.00005%) and includes the alpha and beta values for the  $R_t$  equation. Also includes statement regarding the minor effect of changes in barometric pressure.
- 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.
- 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 (0.000008%). 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.