

TRADE AND COMMERCE
CANADA

STANDARDS DIVISION

OTTAWA, May 14, 1958.

TYPE APPROVALLEEDS & NORTHRUP "SPEEDOMAX" TYPE H MODEL S RECORDERS

The apparatus specified and illustrated herein has been duly approved by the Standards Division under the provisions of the Electricity Inspection Act, Chapter 94, R.S. 1952, and may be admitted to verification in Canada.

Apparatus Approved: Type H Model S Strip-Chart "Speedomax" Potentiometer Recorders, manufactured by Leeds & Northrup, Canada, Ltd., 61 Industry Street, Toronto 15, Ontario.

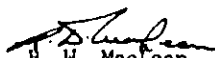
Rating of Apparatus:


Input Millivolts from any approved thermal converter
 Chart Speeds 1, 2, 3, 4, 6, 12, 15, 30 inches per hour
 Supply Voltage 120 volts, 60 cycles
 Standardization Automatic
 Response Time 1 or 5 seconds (as specified)
 Sensitivity Rating 0.1% full scale
 Accuracy Rating 0.3% full scale
 Standard Chart Ranges Charts may be supplied to cover any measurement in Megawatts, Megavars, and Mega-Volt-Amperes.

Description: The "Speedomax" Type H instrument comprises an automatic null-balance measuring system in which balance is accomplished through use of an electronic amplifier. The essential parts of such a system are (1) the null-balance measuring circuit, (2) the null detector-amplifier, (3) the balancing motor and linkage, and (4) the display system. The principles of operation are similar in every respect to the "Speedomax" Recorders Type G which were approved under SD-EA.182, March 23, 1955. However, the Type H is smaller in size than the Type G, and the amplifier circuit is somewhat different.

Although other forms of the instrument are made, this approval only covers the Type H when it incorporates a potentiometer measuring circuit and a strip-chart recorder.

The catalogue number gives the key to the approved types. This designation includes seven numerical elements, only the first two of which are of importance to this approval. For example, a typical catalogue number is 3-85-41-017-6-02-6. The '3' stands for 'Recorder Model S' and the '85' stands for 'For Use with Thermal Converters'. Only instruments whose catalogue number starts with '3-85' are approved.


 H. W. Maclean,
 Director,
 Standards Division.


 (for) E. F. Power,
 Assistant Director (E&G),
 Standards Division.

Ref: A-660



LEEDS & NORTHRUP "SPEEDOMAX" RECORDER

