

DEPARTMENT OF TRADE AND COMMERCE

STANDARDS BRANCH

OTTAWA, August 6, 1963.

MODIFICATION OF TYPE APPROVAL

LEEDS & NOHTHRUP "SPEEDOMAX" TYPE G MODEL S SINGLE AND DOUBLE PEN AND ONE - AND TWO-POINT CURVE PRINTING RECORDER

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

Apparatus Approved: Type G Model S Strip Chart "Speedomax" single and double pen, and one - and Two-Point Curve Printing Recorders manufactured by Leeds & Northrup, Canada, Ltd., 61 Industry Street, Toronto 15, Ontario.

Rating of Apparatus

Catalogue numbers of models approved

69221 69221-02

69321-G21

69225

69229 69252

XMillivolt Input

Record

Standardization Chart

Chart
OPen Speed
fPrinting Interval
Chart Speeds
Power Supply

Maximum External Resistance

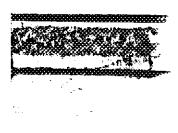
Singe Pen D.C. Potentiometer Recorder Single Pen D.C. Potentiometer Recorder with D.C. re-transmitting slidewire Single Pen D.C. Potentiometer Recorder with A.C. re-transmitting slidewire Single Pen D.C. Potentiometer Recorder with impulse transmitter Two Pen D.C. Potentiometer Recorder Two Point Null Balance Recorder 0-10 to 0-1000 millivolts Single or double pen continuous line and one or two coloured dots or symbols Continuous automatic (zener diode) 9-7/8 and 10# inches calibrated width 1 second to 30 seconds 4 seconds to 60 seconds 3/4 inch per hour minimum 120 volts 60 cycles 2000 ohms

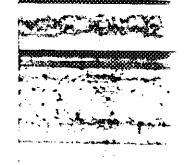
*The kilowatts, megawatts or other power function which the millivolts represent will be shown on the nameplate and scale and also on the range card.

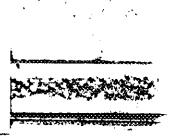
* L.H. zero and raised zero up to half scale is approved







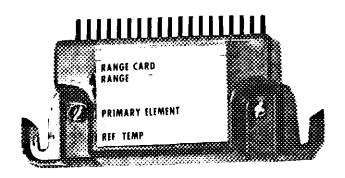


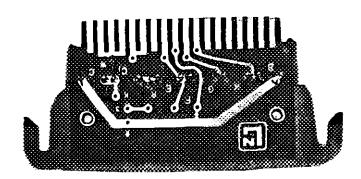


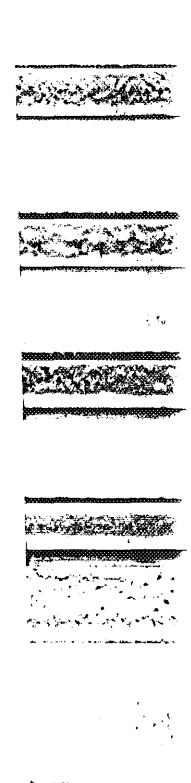
Offen speed is the time taken for the pen or printing mechanism to travel the full length of the scale with a step load change equal to full scale

. . . .

LEEDS & NORTHRUP "SPEEDOMAX" TYPE G MODEL S SINGLE AND DOUBLE PEN AND ONE - AND TWO-POINT CURVE PRINTING RECORDER







	•			
				vasv.

hen a 10 inch calibrated width chart is used, the pen or printing mechanism must be adjusted for a live zero, pen or print is then provented by mechanical stop from reaching full scale.

Printing interval is the time between successive points.

Description: These recorders are elsentially the same as those receiving approval under S-EA.445 of Earch 31, 1960. The measuring circuits have been redesigned and re-located on a printed circuit board of the plustin type which is protected by a rivetted-on cover.

as the zener diode regulated power supply is now standard, the "85" previously used to denote this item is now omitted from the catalogue number.

The range card can be provided upon customers' request with a full-safe resistor whose function is to drive the pen or print to the top of the scale in the event of a bresk in the primary circuit.

The printing interval and chart speed must be such that over-printing is avoided. Special ink may be required for use at low temperatures.

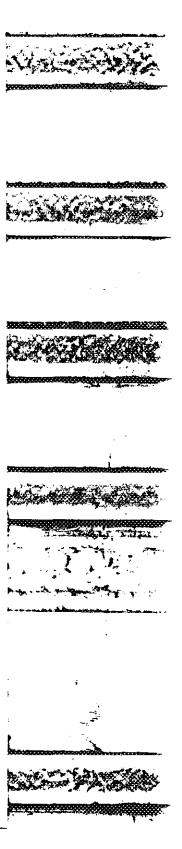
The recorder is approved for use unscaled.

8.7. Power

E. F. Power, Chief, Electricity and Gas Division, Standards Brench.

Director, Standards Branch.

f: A=2400



. •		
		una.