



TRADE AND COMMERCE  
CANADA

STANDARDS BRANCH

OTTAWA August 10, 1962.

TYPE APPROVAL

WESTRONICS STRIP CHART RECORDERS  
TYPES "D11A", "S11A", "D5A" AND "S5A"

The apparatus specified and illustrated herein has 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: Westronics Types "D11A", "S11A", "D5A" and "S5A" Strip Chart Recorders, manufactured by Westronics Incorporated, 3605 McCart, Fort Worth, Texas, and distributed in Canada by Radionics Limited, 8230 Mayrand Street, Montreal 9, P. Q.

Rating of Apparatus:

## Millivolt Input ..... Ranges from 0-1 MV to 0-1000 MV  
 Record ..... Single- or Double-Pen continuous line  
 Current Standardization .... Continuous automatic (Zener Diode)  
 Chart ..... 5 and 11 inches calibrated width  
 Scale ..... 5 and 11 inches calibrated width  
 Pen Speeds ..... 1 and 5 seconds  
 Basic Chart Speeds ..... 1, 2, 4, 6, 10, 12, 15, 20, 30 inches per hour  
 Supply Voltage ..... 120 volts  
 Supply Frequency ..... 60 cycles  
 Maximum External Resistance. 5000 ohms

\* The kilowatts, megawatts or other power function which the millivolts represent shall be shown on the nameplate or scale.

# L.H. zero or zero up to half scale is approved.

Type Designation: Made up of the following:- S = single pen; D = dual pen;  
 5 = 5-inch chart width; 11 = 11-inch chart width; A = model;  
 2H = 2 inches per hour chart speed.

Description: The Westronics model A strip chart recorder is a true rectilinear recorder operating on the automatic null-balancing potentiometer principle. The measuring system consists of three major parts: the null balance measuring circuit, the null balance detector-amplifier, and a balancing motor with its associated mechanical system. The potentiometer measuring circuit is an adjustable calibrated D.C. source, connected to oppose an input signal voltage. A difference between the input signal and the measuring voltage of the potentiometer produces an error signal. The error signal is converted to 60-cycle A.C. and amplified and applied to the control winding of the balancing motor which with its mechanical system drives the pen and slide-wire contacts

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until the error signal is reduced to zero. The sensitivity adjustment is fitted with a locking device. In common with other strip chart recorders this instrument is authorized for use unsealed, that is, the door may be opened for changing the chart but should be equipped with a lock. A drilled fillister head screw underneath the recorder prevents withdrawal of the mechanism beyond the point required for chart changing and similar screws are provided on the back panel. These screws are to be sealed by wire to prevent access to the interior.

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WESTRONICS STRIP CHART RECORDER



