

## TRADE AND COMMERCE CANADA

## STANDARDS BRANCH

OTTAWA July 10, 1361.

## TYPE APPROVAL

## INSTRULAB, INC. - MODEL 101 AND MODEL 201 "EVEN-VOLT" FOMER SUPPLIES

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: Model 101 and Model 201 "Even-Volt" Power Supplies, manufactured by Instrulab, Inc., Dayton, Ohio, U.S.A., and distributed in Canada by Electrodesign, 35 Mulholland Street, Toronto 19, Ontario.

Rating of Apparatus:	Hodel 101	Model 201
Output Voltage	1.4 volts DC ngminal	1.015 to 1.045 volts DC* 5, 6 or 10 ma.
Output Current	5, 6 იუ 10 ma."	5, 6 or 10 ma.#
Voltage Regulation		±0,04%
Input Voltage	100 to 135 volts	100 to 135 volts
Temperature Coefficient	±0.253*	±0.04%*
Temperature Range	0°F to 125°F	OOF to 125°F
Input Frequency	60 eyeles	60 cycles

- \* Output voltage of Model 201 is adjustable over this range
- # Units are designed for one value of output current only
- Ohange in output voltage doe to change in input voltage from 100 to 135 volts
- \* Change in output voltage due to change in ambient temperature

from OFF to 125°F

Description: These units are laused in steel cases. The AC line voltage is reduced by a transformer and is rectified by silicon diodes. This DC voltage is regulated by a 2-stage Zener diode and bridge circuit to give the required output voltage regulation. A trimming potentiomater on Model 201 provides for fine adjustment of the output voltage. Model 101 can be mounted in any position and is designed to fit in present battery space. Terminals are located and spaced so that the unit can be mounted in existing battery holders and terminal brackets. Model 201 is similar to Model 101 but has in addition removable ears on the case for permanent mounting.

In both models the internal resistance values are so chosen that the output voltage is at the specified value only when the current value marked on the nameplate is flowing, so that these units should only be used in recorders that have the same current and voltage rating as marked on the power supply

Model 101 is designed to replace the 12-volt dry cell used in recording potentiometers that have manual or automatic current standardization. Model 201, in addition to replacing the dry cell as is one by Model 101, because of

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its lower temperature coefficient and hence more stable voltage, is designed to replace the standardizing rhocotat and standard cell which may then be removed without affecting the operation or accuracy of the recorder.

This approval covers the use of Model 101 in any suitable presently-

approved potentions for recorder, except the galvanorater bridge type.

This approval also covers the use of Hodel 201 in any suitable presently-approved potentions for recorder in which the 12-volt dry cell, the standardizing phosetat and the standard cell have been removed.

E. F. Power

E. F. Power,

Chief, Electricity & Gas Division, Standards Branch.

R. W. MacLean, Director, Standards Branch.

Ref: A-907

INSTRULAB, INC. - "EVEN-YOLT" REFERRICE UNIT



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