DEPARTMENT OF TRADE AND COMMERCE

STANDARDS BRANCH

E-40

OTTAWA November 2 1966.

NOTICE OF APPROVAL

FOR

LANDIS & GYR TYPE "LGM 1A10042" FILTER CONVERTER

Apparatus

Input	± 5 milliamperes DC
Output	Ranges from 0-±10 millivolts to 0-±100 millivolts DC
Input Impedance	4000 ohms

Description

This filter-converter was developed expressly for use with the types "FF3w/FFD4.12", "MF3w/FFD4.12", "FF1ϕw/FFD4.12" and MF1ϕw/FFD4.12" Torque Balance Telemeter Transmitters covered under circular "E39".

The output from these telemeters is 5 milliamperes with a superimposed complex ripple unsuitable for applying to any recorder approved to date.

This filter converter through a resistance-capacitance network, filters out the ripple and by means of a precision calibrated dropping resistor converts the milliamperes to ripple-free millivolts that can be applied to a recording potentiometer of the null balance type.

It is designed for a nominal input of 5 milliamperes, and to get various values of millivolt output within the approved range of 10 to 100 millivolts, various values of the "range resistor" are available.

The location of this range resistor is shown in the illustration along with the fine adjustment resistor which is used for calibration.

The output value in millivolts for the nominal input of 5 milliamperes will be shown on the nameplate.

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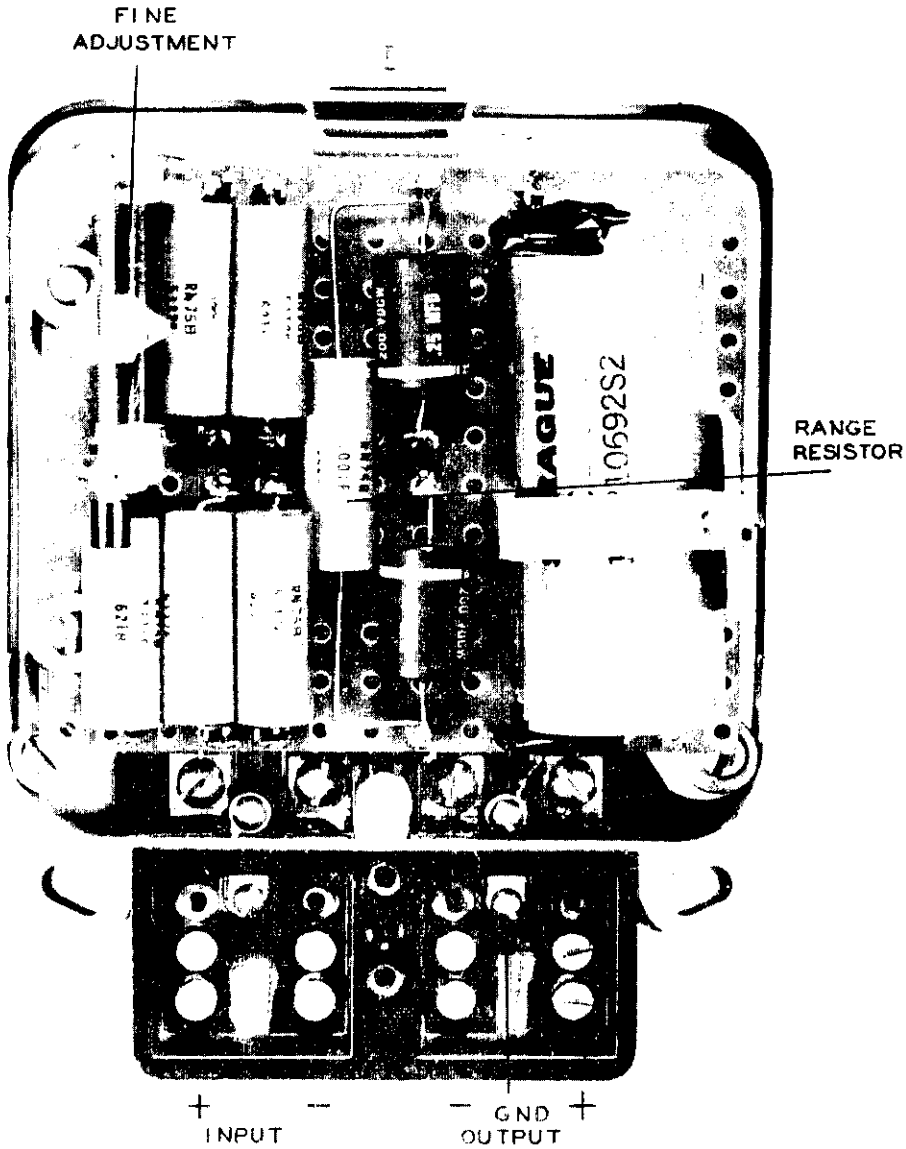

The filter-converter and its associated Torque Balance Telemeter Transmitter must be verified as a unit as the output of the transmitter must be filtered and converted to millivolts before it can be applied to a potentiometer.

The polarity of the output millivolts is in accordance with the polarity of the input milliamperes, the instantaneous polarity is shown in the illustration.

Approval granted to: Landis & Gyr Incorporated,
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Ref. SL-100-10