DEPARTMENT OF TRADE AND COMMERCE

STANDARDS BRANCH

E-34

OTTAWA April 26, 1966.

NOTICE OF APPROVAL

FOR

LANDIS & GYR TYPE "r6" IMPULSING CONTACT DEVICE
AND TYPES: MF8, MF8Ø, FF8, FF8Ø, MF8/VA/MF8Ø & FF8/VA/FF8Ø
POLYPHASE METERS WITH 240 VOLT POTENTIAL COILS

Apparatus ("r6") rating

Transmitting contacts	"dry type", single-pole single-throw
Max. impulse rate	up to 120 per minute
Impulse duration	constant, approx. 90 millisecs
Max. capacity	20 watts
Max. voltage	A.C. 250 volts, D.C. 120 volts
Max. current	0.5 amperes
Supply voltage	115 volts or 240 volts 60Hz, obtained from one of meter potential circuits.

Description

The type "r6" electronically controlled contact device consists of four main components; a reduction gearing, an inductive type sensing system, a transistorized printed-circuit electronic card, and a S.P.S.T. reed type transmitting contact.

The sensing system is driven by the meter shaft through the changeable reduction gears which enable the selection of predetermined impulse rate and its value in primary units.

The inductive sensing transmitter consists of a slotted disc and a winged wheel on a common shaft and an oscillator coil between them which provides inductive pick-up for the electronic circuit which actuates the transmitting contacts.

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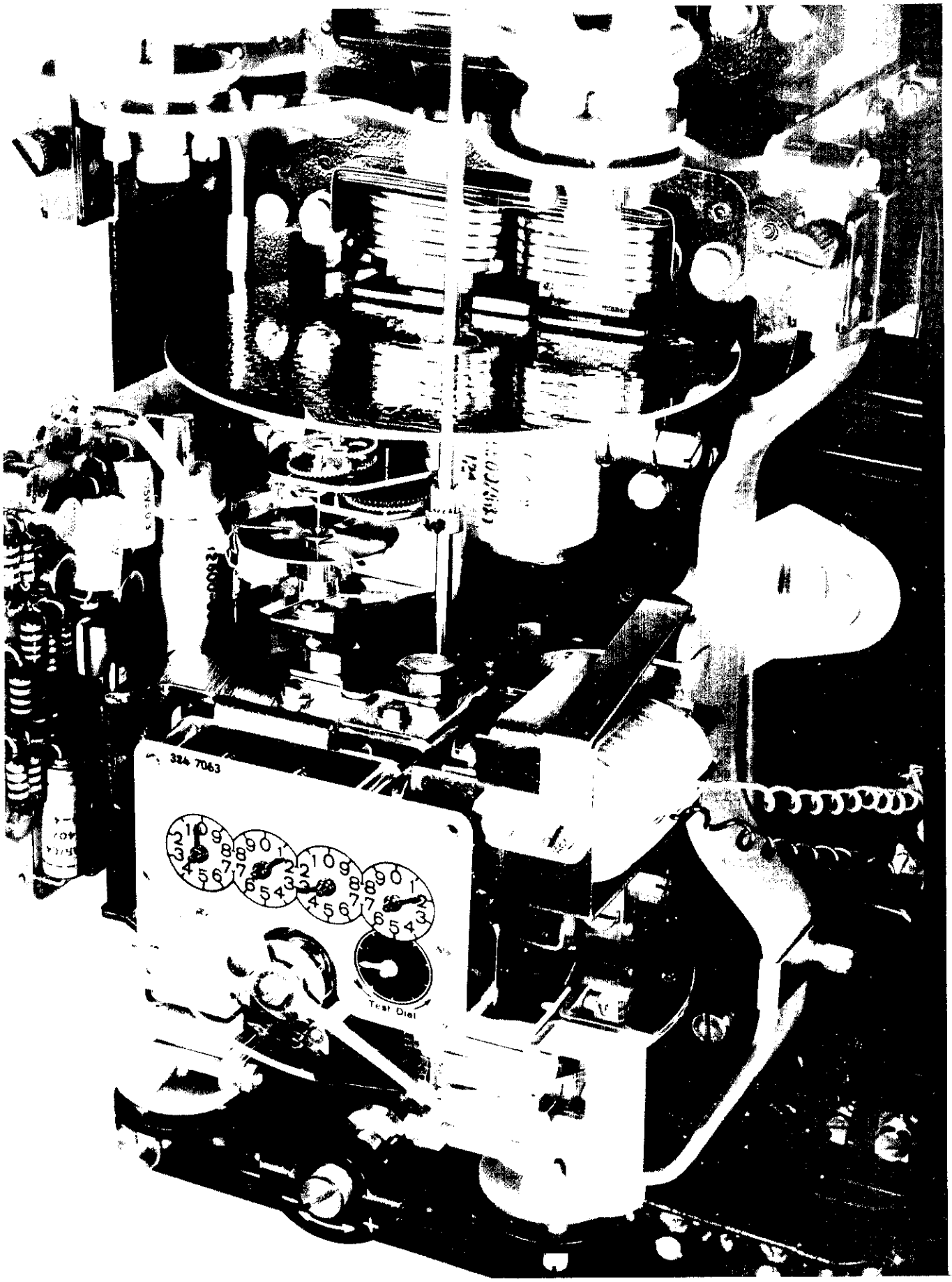

The transmitting switch contacts, single-pole single-throw "dry type", are enclosed in a protective gas atmosphere and are actuated by means of the magnetic field of an exciting coil and are electrically isolated. One complete revolution of the sensing shaft transmits six impulses of constant duration, independent of the speed of a meter rotor.

The design of the "r6" contacts is such that the reverse running stop type "h" prevents reversed disc rotation generating impulses.

The low voltage D.C. supply for the electronic section is provided by a low consumption power unit which forms an integral part of the contact device. All meters on which the "r6" contacts are installed will also be provided with a reverse running stop.

The effect of the induction type sensing system on the meter rotor is minimal and therefore it may be used on any approved type Landis & Gyr energy or reactive energy meter.

This circular also grants approval for an extension of voltage rating to the following meters, whose listed type approval circulars to be corrected accordingly:

TYPE	NEW VOLTAGE RATING	APPROVAL CIRCULAR
"FF8"	115, 120, 230 and 240 volts	S-EA.366 (amended) Feb. 24, 1964
"FF8hmyr4f1"	115, 120, 230 and 240 volts	S-EA.420 October 22, 1959
"FF8Ø"	115, 120,230 and 240 volts	S-EA.550 June 7, 1962
"FF8/VA/FF8Ø	115, 120, 230, 240, 575 and 600 volts	S-EA.551 June 7, 1962
"MF8"	115, 120, 230 and 240 volts	S-EA.614 February 27, 1964
"MF8Ø"	115, 120, 230 and 240 volts	S-EA.635 September 16, 1964
"MF8/VA/MF8Ø"	115, 120, 230 and 240 volts	S-EA.636 September 16, 1964

Approval granted to: Landis & Gyr Inc.,
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