DEPARTMENT OF

TRADE AND COMMERCE
CANADA

S-EA.419

STANDARDS BRANCH

OTTAWA October 22, 1959.

TYPE APPROVAL

LANDIS & GYR TYPES "NAC1e" AND "NAC2e"
'MAXIPRINT' AVERAGE DEMAND AND IMPULSE PRINTING METERS

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: Types "NAC1e" and "NAC2e" 'Maxiprint' Meter, manufactured by Landis & Gyr, Zug, Switzerland, and distributed in Canada by Landis & Gyr, Inc., 1010 Grou, Montreal 9, P. Q.

Rating of Apparatus:

Input ..... Up to 60 pulses per minute
Chart Speed ..... 6 mm per printing
Time Interval ..... 10, 15, 20, 30 or 60 minutes
Supply Voltage ..... 115 volts, 60 cycles.

Note: The 'Maxiprint' is approved for use only when associated with suitable approved auxiliary devices.

Description: The 'Maxiprint' is a recording instrument principally intended to provide a printed record of variations in average load, i.e., variations in demand. It is not a self-contained device but is required to be connected to a primary measuring device or transmitter, such as a Landis & Gyr type FF8hmyr4 meter and to a time switch such as the Landis & Gyr type WAldmq6 switch.

The primary measuring device may be an electricity meter or other suitable instrument equipped with a contacting device to generate current impulses which are transmitted over a communication circuit to the 'Maxiprint'. The current impulses are converted into mechanical impulses which, in turn, are fed to the printing mechanism. Each current impulse is equivalent to a fixed number of primary units, the actual value being determined by the design of the transmitter. If, for instance, the primary measuring device is an electricity meter, the contacting device operates to transmit an impulse after the rotor system has made a certain number of revolutions. The impulses arriving at the 'Maxiprint' merely serve to trip a receiving relay. The power required to drive the printing mechanism,

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(chart

LANDIS & GYR TYPE "NAC1e" 'MAXIPRINT' METER

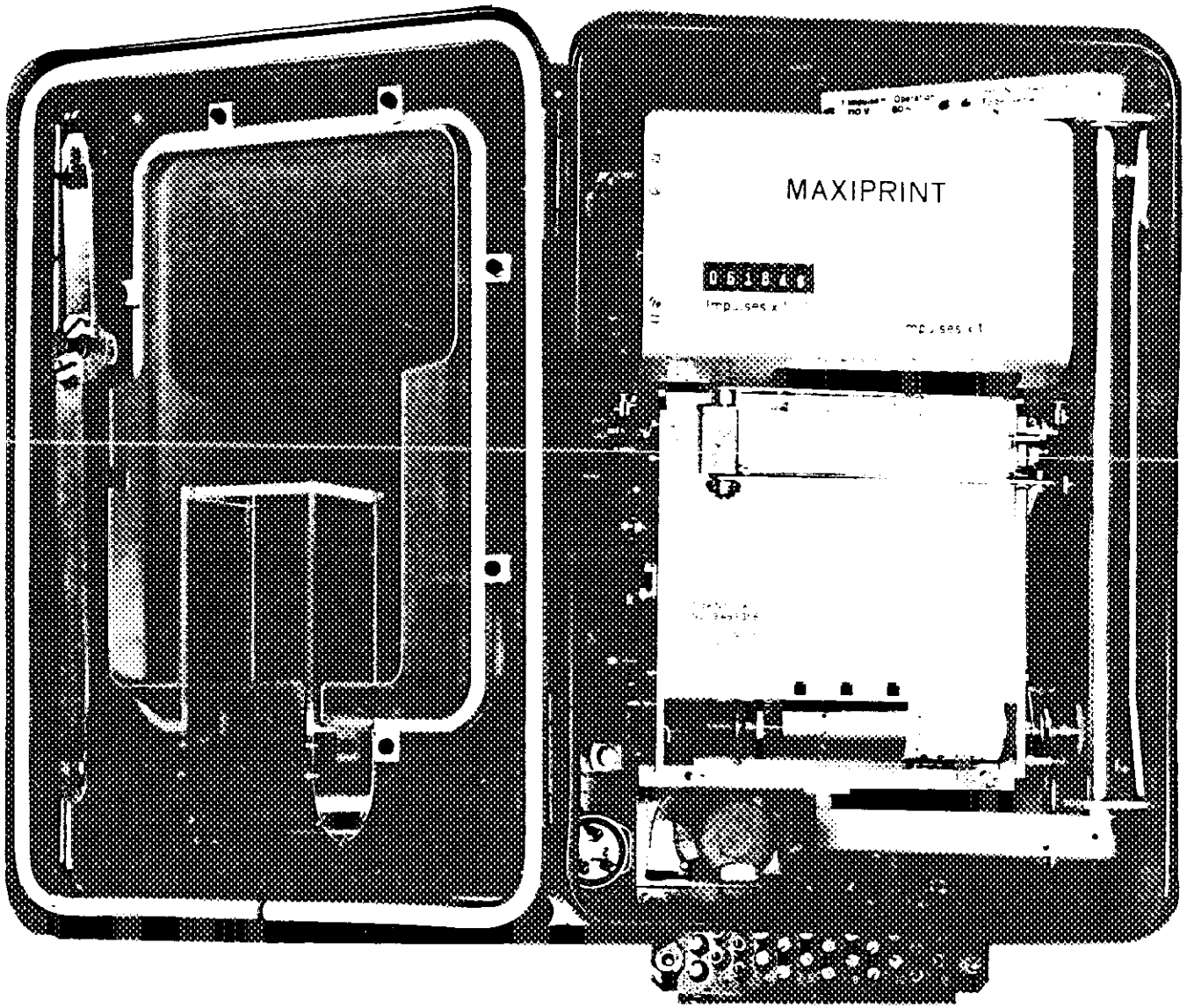

chart strip and integrating register is supplied by a built-in servo-motor.

The function of the time switch is to control the time interval or integrating period which may be 10, 15, 20, 30 or 60 minutes. At the end of each interval the time switch causes the 'Maxiprint' to print, in duplicate, on a paper strip chart the number of pulses which were received during the interval. After the record has been printed the chart advances 6 mm and is slit down the middle to separate the two records. After a succession of intervals, determined by an additional setting on the time switch, the left-hand portion of the chart is cut off and this portion is deposited in a chamber, attached to the front cover, from which it may be removed through a hinged cover. The other half of the chart is rolled onto a receiving roll. A cyclometer register also records the accumulated total number of pulses.

The 'Maxiprint' types "NAC1e" and "NAC2e" are similar in type, the latter incorporating a number of improvements. Both types may be supplied with either a surface-mounting case or a flush-mounting case. A flush-mounting case is denoted by the letters "f1" appended to the type designation.

The 'Maxiprint' is approved for indoor use only where the temperature does not drop below 40°F. A wiring diagram must accompany each instrument, giving the details of connections to the associated instruments.

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