



DEPARTMENT OF TRADE AND COMMERCE
STANDARDS BRANCH

E-2

OTTAWA May 5 1965

NOTICE OF APPROVAL
FOR

LANDIS & GYR "K" TIME IMPULSE STORAGE ATTACHMENT

Apparatus

Duration of contact closure	60 - 80 milliseconds approximately
Spacing of contact closures	8 seconds approximately
Timing periods	10,15,20,30 and 60 minutes.

Description

*The "k" attachment has been developed specifically to overcome the problem of carry-over for impulse timed demand recorders, such as the Maxiprints.

Since in case of power failure no electrical timing impulses could be transmitted to the Maxiprint, its chart would get off time despite the carry-over feature of the time switch.

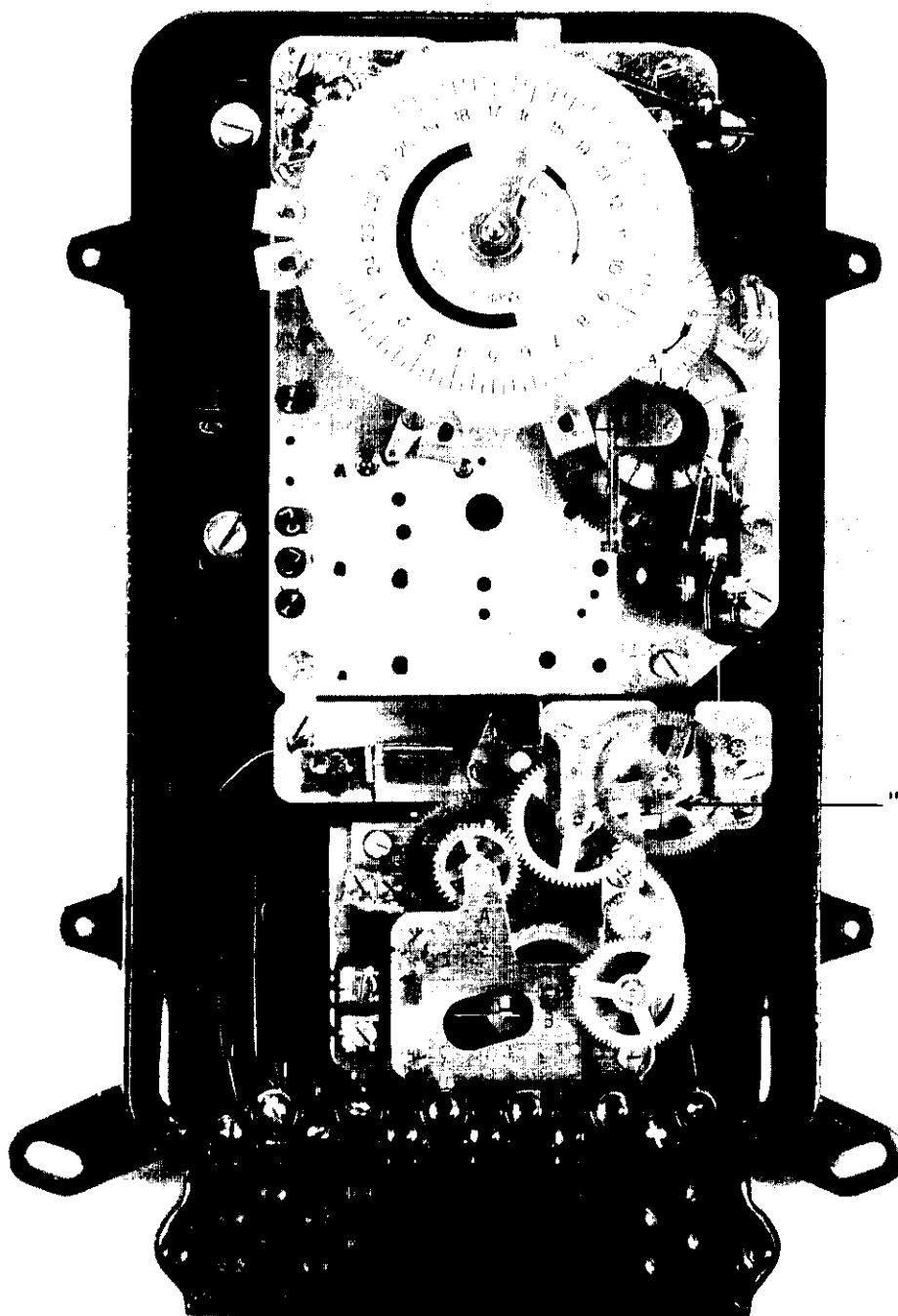
The "k" attachment is a device which registers and stores the timing pulses in a differential mechanism, and transmits them onto the timing circuit only if the necessary impulsing voltage is available.

One timing-impulse-equivalent of the time switch deflects the "k" differential enough to release the brake of a servo-motor which is constantly connected to the supply voltage for the timing circuit. The motor then returns the differential to its zero-position at the same time transmitting one impulse.

In the case of power failure, the time switch will keep on time by its carry-over clockwork, transmitting impulse equivalents to the differential as each demand period has elapsed.

Since the servo-motor is not energised (due to the power failure), the differential will be driven out of the zero position proportional to the number of timing impulses which should have, but could not be transmitted.

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"k" attachment

Description (continued)

Upon re-establishment of the impulsing voltage, the servo-motor will be energised and will now return the differential to zero, issuing exactly as many timing impulses as had been lost.

The Maxiprint chart will be brought back up to the correct time in a series of steps and printings, at a sequence of approximately 8 seconds per step.

Provision is provided for sealing both the terminal chamber and the access hole in the cover.

The type "k" Time Impulse Storage Attachment is approved for use on Type "WAL" Time Switch (S-EA.418) and Type "KYAL" Time Switch (S-EA.617).

Approval granted to: Landis & Gyr Inc., 725 Decarie Blvd., Montreal 9, P.Q.

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