

W-13
The type WR-2 is available with internal wiring to suit the following battery options:-

- a. 450 ma/hr internal battery
- b. any suitable 12 volt external battery
- c. specified external battery, Gould MP-602P or equivalent, kept trickle charged.

These options are available separately, never combined.



DEPARTMENT OF TRADE AND COMMERCE
STANDARDS BRANCH

E-13

OTTAWA July 7 1965.

NOTICE OF APPROVAL

FOR

WESTINGHOUSE TYPE "WR-2" DEMAND RECORDER

Apparatus

Input	3-wire contact device
Max. Input Pulses	999 per interval
Min. Time between Pulses	0.75 seconds
Power Supply	120 and 240 volts
Tape Speed	2.15 inches per 15 minutes
°Tape	600 feet 1-mil Mylar on 5-inch reel (34 day supply)
Full Scale on Demand Pointer	1000 pulses
Total Pulses on Register	100,000 x 10 at time of turnover
*Multiplier	10
Carry-over Battery	12 volt 450 ma hours nickel-cadmium storage
Carry-over without recharge	3 hours
Total Pulse Count	Absolute#
Demand Period	15 minutes
Record and Readout	Pulses

°Standard 1/4 inch sound recording tape.

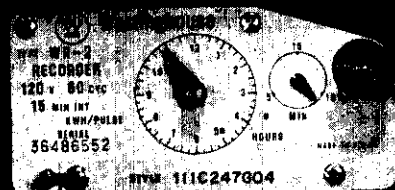
*Applies to demand pointer reading and to register reading.

#Total tape pulse count is absolute for the time the tape is in place with the recorder energized, but during tape changes, pulses will continue to be added to the register but not to the tape.

Description

The type "WR-2" demand recorder, records on a magnetic tape - (a) pulses proportional to the load being metered and (b) time interval pulses. These two sets of pulses are recorded magnetically on two separate independent tracks. The tape is supplied in a magazine which is inserted in the recorder and the tape threaded over the recording head. At the end of the billing period or 30 days, most of the tape has been transported to the take-up reel. The remainder of the tape is wound manually on the take-up reel and the magazine is removed from the recorder.

WESTINGHOUSE TYPE "WR-2" DEMAND RECORDER



Description (cont'd)

The magnetic information contained on the tape is translated into punched IBM cards suitable for computer entry, automatic billing, load survey etc., as there is a record of the kilowatt hours, etc., consumed during each 15 minute period during the month.

The WR-2 Recorder has a pointer which operates in the conventional manner and indicates on a 0-100 x 10 scale, the highest number of pulses that were received in a 15 minute interval between the time the magazine was installed and when it was removed.

The recorder also has a register, identical in appearance to that usually found on a watt-hour meter, but its record is in pulses not in watt-hours, and care should be taken to recognize the distinction.

The main purpose of the register, in keeping with this approval, is that it may be used as a test dial. In using the difference between readings of the register for any computation it will be necessary to exercise caution, as the register will repeat in approximately 10 days at maximum input pulse rate.

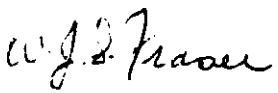
A small storage battery is trickle charged, and in case of power failure to the recorder, it takes over the job of maintaining tape movement and the generation of interval pulses. The capacity of this battery is sufficient for 3 hours of operation.


After translation, the magnetic tape can be demagnetized and reused or may be temporarily stored.

Pin jacks are provided so that it is possible to hear the signal and timing pulses through earphones.

The source of the pulses will be shown on a gummed paper label located on the bakelite insulation immediately below the tape magazine.

Approval granted to: The Canadian Westinghouse Company Limited,
Hamilton, Ontario.


W.J.S. Fraser,
Chief, Standards Laboratory,
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