



TRADE AND COMMERCE
CANADA

SD-WA. 317

STANDARDS DIVISION

OTTAWA, September 18, 1957.

TYPE APPROVAL

HOBART-DAYTON PREPACKAGING SCALE, MODEL 2000

Under the provisions of the Weights and Measures Act, Chapter 292, R.S.C. 1952, and the Regulations thereunder (P.C. 6894), the apparatus specified and illustrated herein has been listed as an approved device and may be used in Canada in accordance with the conditions applicable.

Apparatus Listed: Prepackaging counter scale with separate computing and label printing units, Model 2000, manufactured by Hobart Manufacturing Company Limited, Troy, Ohio, U. S. A.

Rating of Apparatus: 24.99 lbs.

Application: Weighing commodities for prepackaging purposes.

Conditions: As prescribed in P.C. 6894, with the added mandatory requirement that each scale will bear a legend that the device is for prepackaging use only. This legend must be located in a position plainly visible to an observer and be of a permanent nature with letters at least $3/16$ " in height on a contrasting background.

Description: This device consists of three separately encased units:

- (1) a scale equipped with a servo motor and the necessary electrical contacts to pass the weight signal to the electrical computer unit;
- (2) a price selector label printing unit with manually controlled commodity stamping plate;
- (3) a computing unit which receives the weight signal from the scale and the price per pound from the label printing unit, selects the proper relays, and relays the weight and money value of the commodity to the label printing unit.

The scale is equipped with a Hobart leverage system with temperature compensated helical spring resistance and a servo motor to aid in overcoming weighing system friction. It is also equipped with two $9/16$ " wide and $2\ 5/16$ " diameter charts driven by the servo motor. The capacity of one chart is .99 lbs x .01 lbs, and the other 24 lbs. x 1 lb.

The sequence of operation of the complete unit is as follows: the proper price is set and the commodity plate placed in the label printer; the load is placed on the scale platter, the end of the transfer lever moves downward closing the contact points,


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which energize the servo motor. As the leverage and spring resistance neutralizes the load, the contacts open and the servo motor stops. When the motor is in operation it drives through a gear system the following parts: the two weight charts, the three sets of double contacts on the three weight selector switches, and the weight interlocking switch. When the weight interlocking switch stops, the electrical signal from the weight selector switch activates the proper computer relay switches in the electrical computer. The computer at the same time is also receiving the price per pound setting from the printer labeller, which is integrated with the weight information and then relayed to the printer labeller unit, causing it to print the label with the weight, price per pound, value of the load, name of the commodity, and then eject the label. A green light appears on the scale face to indicate that another weighing can take place.

The interlocking features are as follows:

- (1) The servo motor must have stopped before the commodity can be weighed;
- (2) The price per pound must be set accurately on the graduations or a red warning light on the labeller will warn the operator and the scale will not compute;
- (3) If the printed label is left in the discharge chute, the scale will not weigh until it is removed;
- (4) If the commodity stamping plate is removed and another inserted, the scale will not weigh until the price is re-set.

Testing: The standard tests for a computing prepackaging scale will apply. Care should be taken to check the prices, weight range, and printed value as completely as possible. Functioning of the interlocking features should also be checked.


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