



CANADA

DEPARTMENT OF TRADE AND COMMERCE  
STANDARDS BRANCH

S-WA.570

OTTAWA, May 31, 1965

APPROVAL LISTING

BERKEL PREPACKAGING SCALE MODEL "ELPAC"

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 dial scale with separate price keyboard, transistor computer and label printer, Model "Elpac".

Manufactured by Berkel Products Company Limited, Holland, Belgium, Switzerland and Berkel Products Company Limited, 1825 Dundas Highway East, Cooksville, Ontario.

Rating of Apparatus: Capacities 20 pounds and 30 pounds with graduations of .01 pounds.

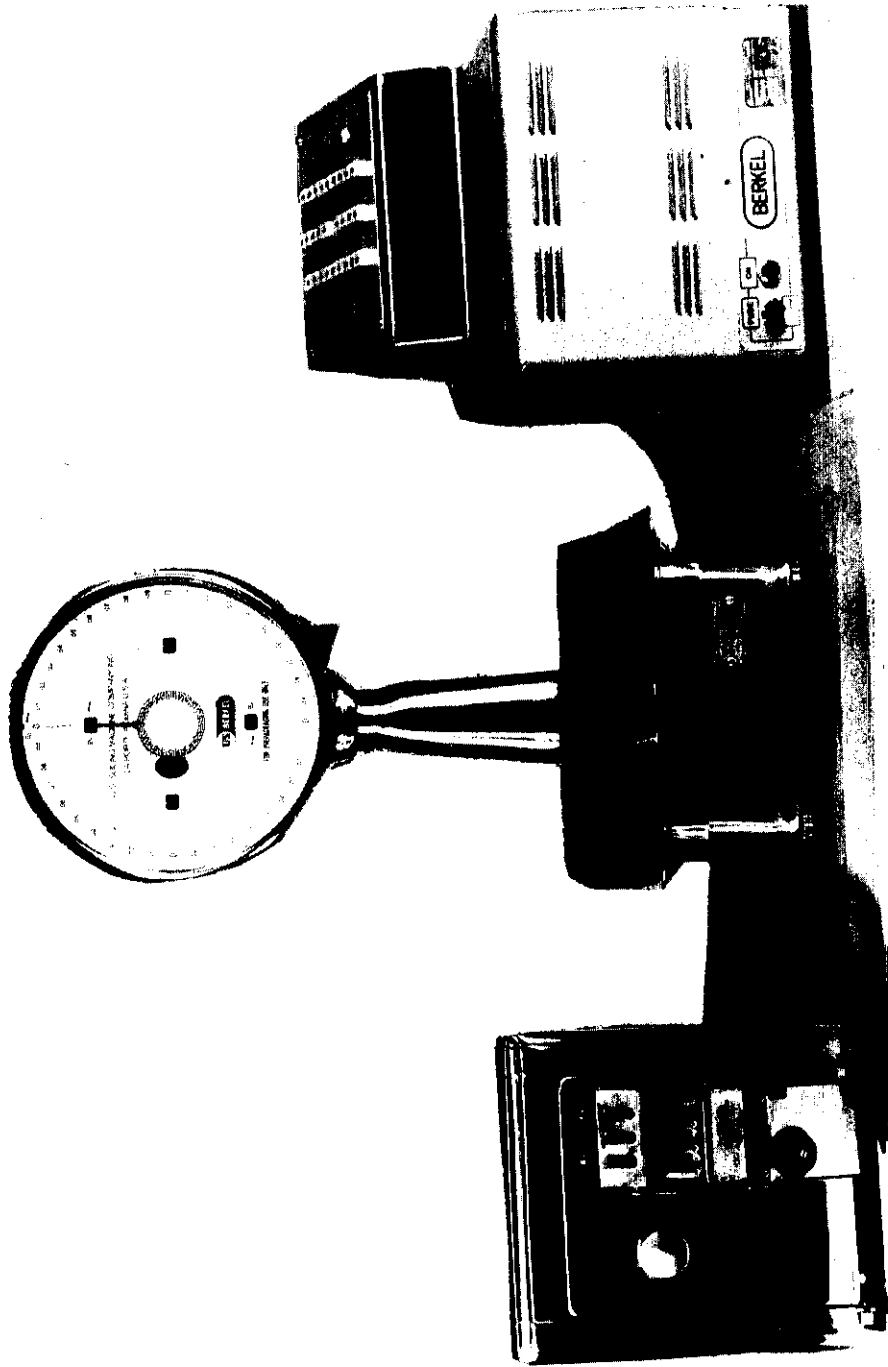
Application: Weighing commodities for prepackaging purposes.

Conditions: As prescribed in P.C. 6894 with the added mandatory requirement that each scale bears a legend to the effect that the device is "Legal For Prepackaging Use Only And Not For Direct Sales To The Customer". The legend must be located in a position plainly visible to the operator and of a permanent nature with letters at least 3/16" in height on a contrasting background. These scales shall not be on the retail premises of any business enterprise.

Description: This device consists of four separately encased units.

1. Scale: A counter platform multiple revolution dial scale with a photo electric digitizer installed at the rear of the dial. This unit translates the weight indication of the scale into digital code. The two main levers are of the torsion type and are positioned by a combination of steel pins and the pivot and bearing assemblies. The circular dial chart is graduated to 20% of the scale capacity. Full capacity load is five complete revolutions of the indicator. Indication of the whole pound is provided by digits being visible through windows cut in the outer dial, intermediate values are read from the graduated outer dial. The load is

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Description (cont'd)

resisted by a pair of pendulums located in the dial head, the pendulum motion is transmitted to the indicating system by a rack and pinion assembly.

2. Keyboard: A price keyboard which has three columns of ten push buttons each, the columns from left to right provide a selection of dollars and cents.

3. Computer: The computer utilizes an electronic switch for scanning of the following:

Weight read-out from the decoder memory. Unit prices from the price keyboard. The computed product of weight and price is stored in binary-decimal counters. A set of output relays are then connected to the counters and these relays become energized in a pattern which is governed by the value stored in the counters.

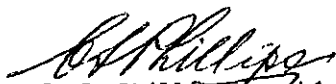
A maximum product of four digits can be computed and printed. The decimal output of the computer relays are fed to the label printer.

4. Label Printer: The commodity name is printed on a label by means of an interchangeable plate. A hinged door at the front of the printer housing permits access for the changing of the commodity plates.

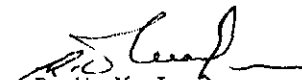
Weight and price data are printed by number wheels which are automatically rotated to agree with the data furnished by the computer.

Testing:

The standard tests for computing prepackaging scale will apply. Care should be taken to check the prices, weight range, and printed value as completely as possible.



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