



McE...oy

Legal Metrology/Métrieologie légale

Short Form-Version Abrégée

**NOTICE OF APPROVAL
AVIS D'APPROBATION**

S.WA-3024

Ottawa, January 5, 1981

CONSOLIDATED CONTROLS - MODEL UMC4000 DIGITAL WEIGHT INDICATOR

Company: Consolidated Controls Corporation
15 Durant Avenue
Bethel, Connecticut U.S.A.

Manufacturer: Consolidated Controls Corporation

Type of Device: This is a fully electronic digital indicator that when interfaced with an approved weight platform becomes a weighing system.

Model Number

Capacity

UMC 4000

This indicator has 6 1/2 active display digits and can be set internally to display x1, x2 and x5 with selectable decimal points.

NOTE: This indicator approval also applies to the following companies who market it under their own model numbers with minor cosmetic changes:

COMPANY

Model No.

DSC Weighing Systems
RR# 1, Brantford
Ontario (N3T 5L4)

UMC 4000

Howe-Richardson Scale Co.
of Canada Ltd.,
217 Brunswick Blvd.,
Pointe-Claire, Québec

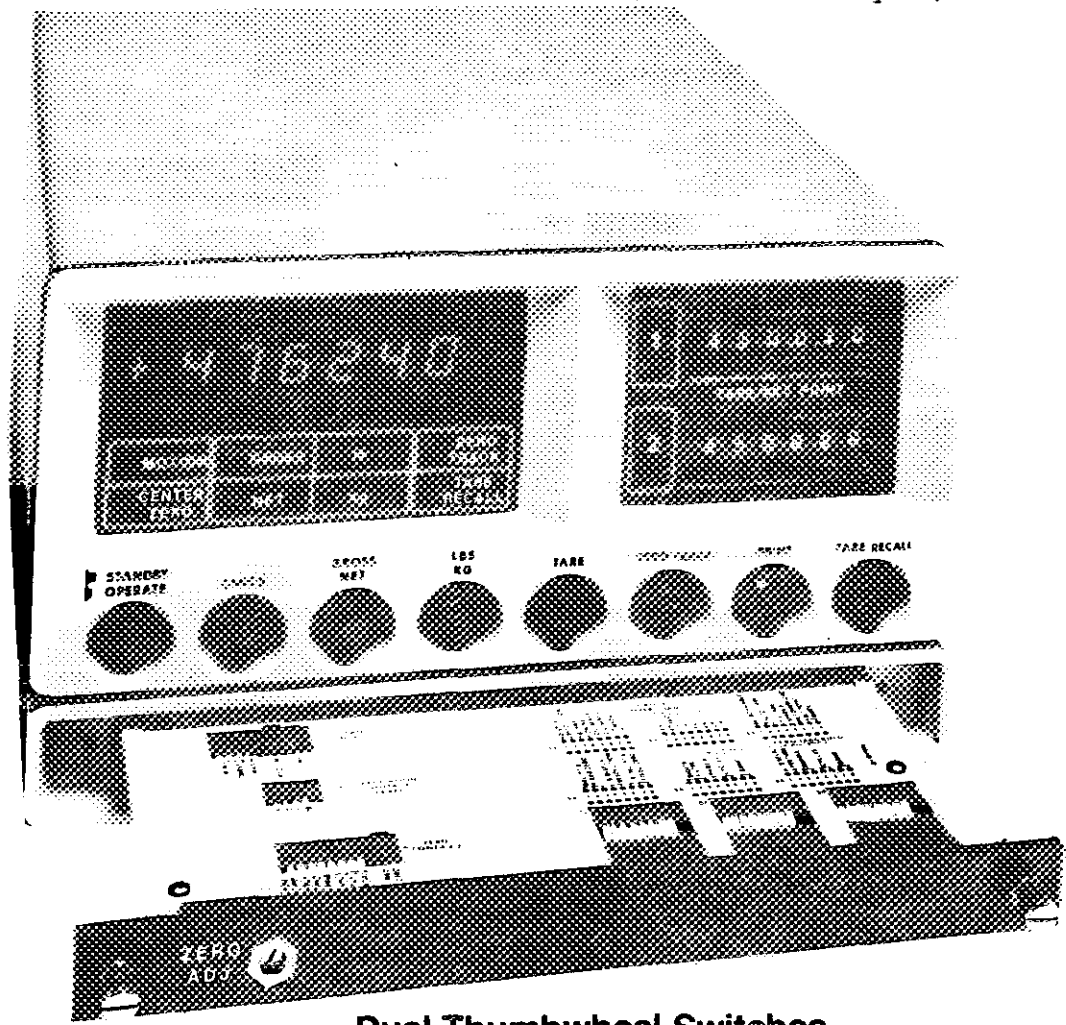
UMC 4000

Aurora Scale Mfg. Co.,
230 Edward Street
Aurora, Ontario

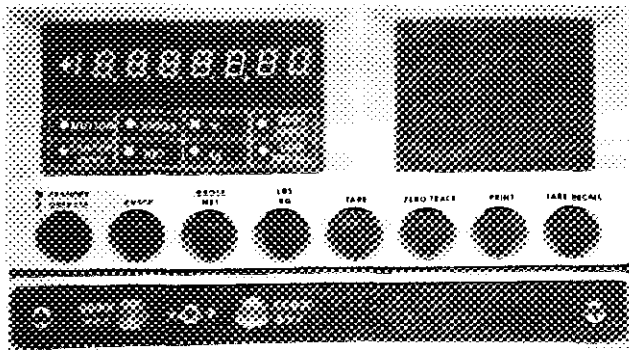
UMC 4000

BLH Electronics
42 Fourth Avenue
Waltham, Mass. U.S.A.

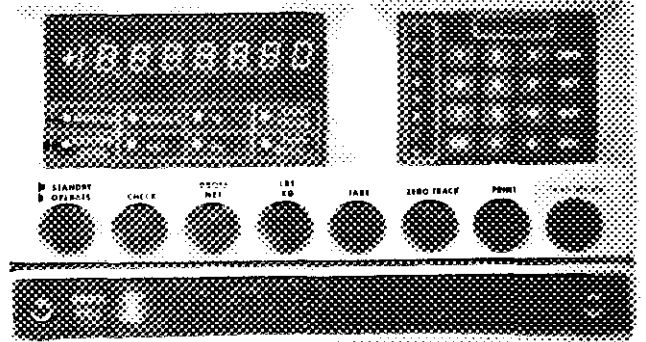
4400



Dual Thumbwheel Switches



Dual Scale Capability



Keyboard

UMC 4000 CONFIGURATIONS

FIGURE 1

Approved Accessories:

- 1) any approved compatible printer
- 2) dual thumbwheel set point controllers
- 3) digital (thumbwheel) tare
- 4) Eight position keyboard set point/digital tare controller
- 5) BCD output connector
- 6) Serial output interface connector (for computers or teletype)
- 7) 2 scale capability

Description: This is a microprocessor based digital indicator that can incorporate several options. The following reflects the basic indicator and some of the options available.

A. Display

The display consists of:

- 1) 6 1/2 high intensity red LED's .43 inch high and two additional LED digits which are fixed as dummy zero's and a (-) sign to indicate negative weight.
- 2) Eight status annunciators that indicate: Motion, center of zero, gross, net, LB, Kg, Zero track and Tare recall.

B. Controls

The following controls are mounted on the front of the indicator:

- 1) Standby/Operate switch - in the standby position the display is off with the exception of the - indicator.
- 2) Check switch - used to verify the display.
- 3) Gross/Net switch
- 4) Tare switch - used to acquire a scale weight as tare. If thumbwheel or keyboard tare options are installed this switch to be disabled by internal dip switch setting.
- 5) Zero track switch - non-operator controlled-switch capped.
- 6) Print switch - to operate a printer.
- 7) Tare Recall switch - pressing this switch will cause display to blank and display tare value.

C. A scale "A or B" selection switch if this option on indicator.

D. A "Zero Adj" potentiometer or push to zero button, with dual scale option there will be two of each

Description: (Cont'd)

E. A Calibration Drawer - This drawer slides out from the front of the instrument and contains the dip switches and controls for programming. The various functions of the switches are shown on a switch map printed on the cover of the drawer.

NOTE: with the dual scale option there will be duplicate controls for, span, zero, decimal points and display resolution.

F. The following are controls for the options available:

- 1) dual thumbwheel - set point controllers
- 2) digital thumbwheel - tare
- 3) keyboard - set point/Digital tare controller. This option has the following controls:
 - (1) numbers 0 to 9 - for entering tare or set point values;
 - (2) operate (OPR) key
 - (3) delete (DEL) key
 - (4) enter (E) key
 - (5) step (STP) key - for stepping through set points
 - (6) set (SET) key
 - (7) clear entry (CE) key
 - (8) eight LED indicators, no. 1 for tare and 7 more that light when setpoint values have been met or exceeded;
 - (9) a six digit LED numerical display

NOTE: Battery back up is provided for set point and tare values. When switching from LB to Kg modes all values are automatically converted.

Testing: The display can be verified by pressing the CHECK switch, this will cause the display to blank for 2 seconds, then light all displays for 2 seconds, then indicate a 3 digit diagnostic number and return to normal.

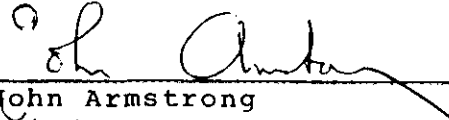
This unit is sealed by a wire and lead seal from the lower RH side of program drawer to a drilled hole in the case.

Special conditions:

- 1) The sealing means is exempt from providing ready access to other components or adjustments as per SGM 3/10.
- 2) This unit has available as an option a "Weight Accumulation" feature. As this option will accumulate all displayed values either negative or positive it is not approved for use in trade.

CONDITION OF APPROVAL: Approval is granted under the Weights and Measures Act, S.C. 1970-71-72, chapter 36, and the Weights and Measures Regulations C.R.C.c., 1605 for use in Canada under the general conditions of the said Regulations and under any special conditions listed above.

Reference No.: *PM* G6922-C1604



John Armstrong
Chief
Weights and Measures Division
Legal Metrology Branch