



Consumer and
Corporate Affairs

Consommation et
corporations

Legal Metrology/Métrieologie légale

D. McEwen

SHORT FORM - VERSION ABREGEE

**NOTICE OF APPROVAL
AVIS D'APPROBATION**

S.WA-3021

Ottawa, December 30, 1980

Consolidated Controls - Model UMC 2000 Digital Weight Indicator

Company Requesting Approval: Consolidated Controls Corporation
15 Durant Ave.,
Bethel, Connecticut
U.S.A. 06801

Manufacturer: Consolidated Controls Corporation
15 Durant Ave.,
Bethel, Connecticut
U.S.A.

Type of Device: A digital electronic weight indicator that when inter-
faced to an approved compatible weight platform that utilizes load
cells becomes a weighing system. This indicator provides either 10
or 15 VDC excitation voltage and can handle a load current not greater
than 175 ma maximum (sufficient for 4 - 350 ohm load cells connected
in parallel at 15 VDC).

MODEL NUMBER

CAPACITY

UMC 2000

This indicator has 5½ active display digits,
and can be set internally to display x1, x2,
x5 or x10 with selectable decimal points.

UMC 2004

Electronically identical to the UMC2000, but
enclosed in a stainless steel NEMA enclosure
for use in hazardous locations

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

COMPANY

MODEL NUMBER

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

UMC 2000
UMC 2004

<u>COMPANY</u>	<u>MODEL NUMBER</u>
Howe-Richardson Co., of Canada Limited 217 Brunswick Blvd. Pointe-Claire, Quebec	UMC 2000 UMC 2004
AURORA scale Mfg., Co. 230 Edward Street Aurora, Ontario	UMC 2000 UMC 2004
BLH Electronics 42 Fourth Avenue Waltham, Mass. U.S.A.	4310 4315

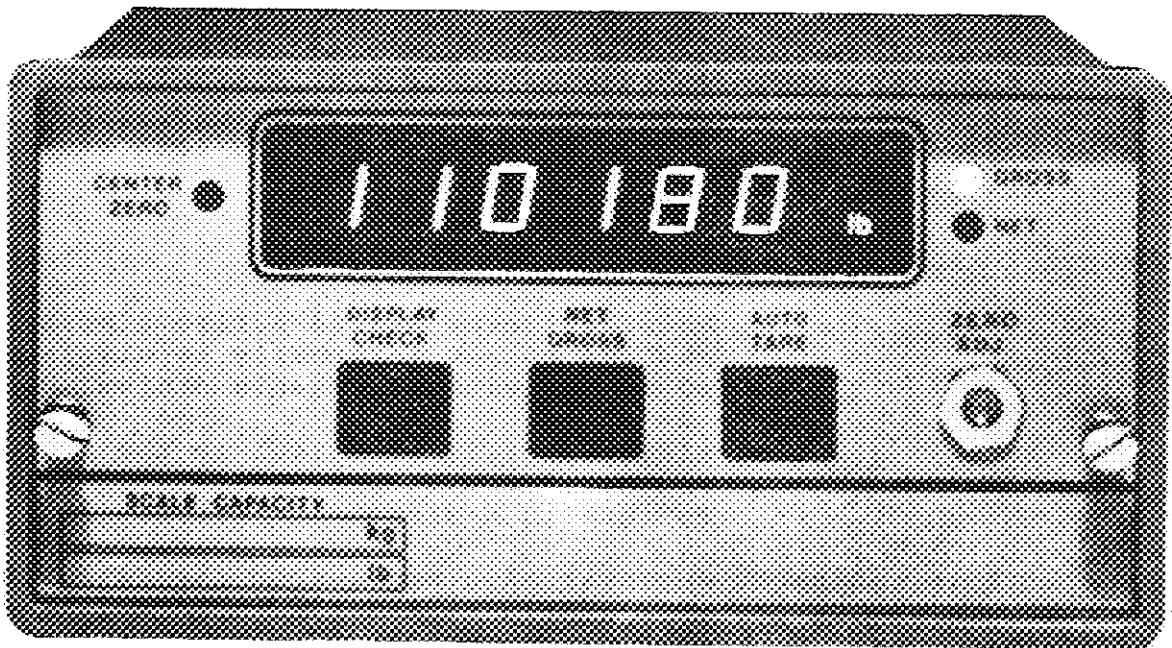


FIGURE 1

Approved Accessories:

- A) a NEMA stainless steel enclosure (identified as model 2004)
- B) the following options are available:
 - (1) Parallel BCD output and Auto Zero tracking
 - (2) Auto zero tracking (AZT)
 - (3) Set point or digital tare (remote thumbwheel only)
 - (4) Set point or digital tare plus BCD output and AZT
 - (5) AZT with push to zero switch.

NOTE: If the parallel BCD output option is part of the instrument the three front panel switches can be operated remotely, these switches are not to be located more than 6 feet or two metres from the instrument.

Description: This is a microprocessor based digital indicator, the following describes the main features and controls, some of which are options.

Display - there are 5 1/2 high intensity light emitting diodes.43 of an inch high that consist of 7 segments and a - negative indicator.

Indicators - there are LED indicators that indicate LB, Kg, Center of zero, Gross and Net.

Display Check Switch - pressing this switch will blank the display for 2 seconds, then illuminate all LED's and display segments for 2 seconds, then display a 4 digit diagnostic number, then return to the weighing mode.

Gross/Net Switch - pushing this switch will change the weighing mode and the mode selected will be indicated on the LED's.

Auto Tare Switch - pressing of this switch with the NET mode selected will tare off any weight on the scale.

Zero Adj. - this is a 20 turn potentiometer, screwdriver operated to zero the indicator.

The display has been programed to display the following when the conditions indicated occur.

DISPLAY



CAUSE

scale overload

Description: Cont'd

<u>DISPLAY</u>	<u>CAUSE</u>
-----	loss of AZT or zero value
--	loss of tare value.

The rear of the indicator can have the following connectors mounted on it depending on the options available:

<u>CONNECTORS</u>	<u>FUNCTION</u>
J1	Load cell
J2	Set point/Fixed tare
J3	Parallel BCD output Connector (BCD - binary - Code d - Decimal)

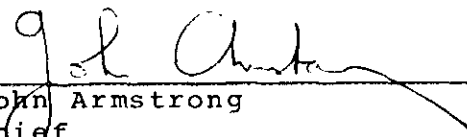
This indicator can be converted from LB to Kg indication by changing the setting of internal dip switches.

Sealing of the unit is from the LH drilled head case retaining screw on the front of the instrument to the case.

Special Conditions: The sealing means is exempt from providing ready access to other components or adjustments as per SGM3/10.

Conditions 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. ^{P.M.A.} G6922-C1604



 John Armstrong
 Chief
 Weights and Measures Division
 Legal Metrology Branch