



Operator Manual

Model DWM-IV



Table of Contents

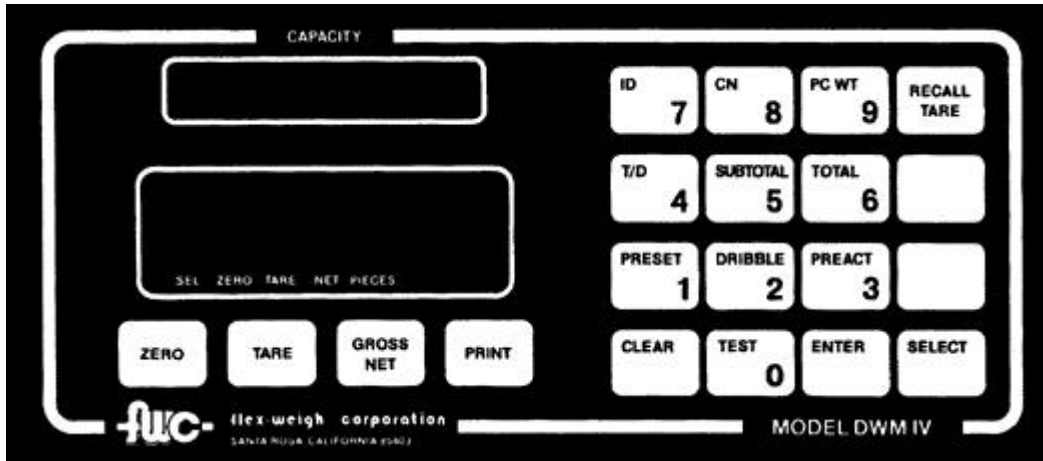
Standard Features:.....	3
Options:	4
Specifications:.....	4
Compliance with FCC Rules	6
Warranty	6
Installation Requirements.....	7
Unpacking and Inspection	7
Handbook 44 Requirements	7

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Standard Features:

Keyboard programmable setup: All select functions, setup and calibration are programmable through the keyboard. Access to setup mode is enabled by internal switch.

Pushbutton Zero: Used for establishing gross zero.

Pushbutton Tare: Automatically tares the weight of object placed on the scale and places scale in the net mode.

Auto Zero Tracking: Automatically tracks zero (0) within 1/4 digit to ensure a stable zero (0) over time.

Gross/Net Pushbutton: View net and gross weight when tare weight has been entered.

Print Pushbutton: Transmits data out of serial port.

Numeric ID: Single register to enter up to seven (7) digits of numeric identification.

CN: Six (6) digit consecutive number increments each time the [PRINT] button is pressed.

Recall Tare Pushbutton: Used for recall viewing of tare weights.

Keyboard Tare Pushbutton: 10 Tare look-up (0–9) to enter predetermined tare values.

PC WT Entry: 9 piece weight look-up (1–9) determines count by entering predetermined piece weight.

Weight Accumulation: 10 weight accumulation registers with subtotal.

Digital Filter: Compensates for vibration or motion, keyboard selected from 1 to 32 updates per average.

Data Output: Serial ASCII 20 mA current loop with selectable baud rates (150–19.2K), selectable auto or manual print, continuous data out, or bi-directional communication.

Remote Control Inputs: Zero, Tare, Net/Gross, Print. Requires voltage-free contacts.

Enclosure: NEMA-12 wall mount/dust-tight.

Options:

Outputs: Dual port serial RS-232, RS-422, RS-485, and/or 20mA current loop; Parallel BCD; Analog 4-20mA or 0-5 VDC.

Time and Date: Battery backed up time and date with selectable 12 or 24 hour mode.

Setpoints: Up to six (6) single speed or three (3) two speed setpoints with “Zero Interlock” and “Fill Complete” output.

Table Stand: Provides 60 degree angle mount stand for wall mount enclosure.

N4S Enclosure: NEMA-4 Stainless Steel watertight wall mount enclosure.

Custom Systems: Flex-Weigh offers full engineering support for customized systems. Contact your local dealer for further details.

Specifications:

Keyboard: Sealed keyboard with tactile keys.

Display: 6 digits and (-) sign. Seven (7) segment, 0.5" high blue vacuum fluorescent type, with annunciators for: function select, center zero, tare, net, pieces, F1, and F2.

Internal Raw Count: 100,000 counts maximum.

Display Resolution: 1 part in 10,000 maximum “Legal for Trade”, 1 part in 24,000 extended, 1 part in 100,000 maximum in high resolution mode.

Display Increments: x1, x2, x5, x10, x20, x50, x100.

Decimal Point Location: Selectable 1–4 places to the left.

A/D Conversion Rate: 15 updates per second.

Response Time: Zero (0) to full scale capacity, selectable to 0.5 to 4 seconds.

Display Rate: Selectable 0.25, 0.5, 1, 2, 5, 10, or 20 updates per second.

Over Capacity: Displays OLOADat 102% of Full Scale Capacity.

Center Zero: Light indication when scale is within +/-0.25 digit of center of zero (0).

Load Cell Excitation: 15 VDC, powers up to twelve (12) 350 ohm load cells.

Input Sensitivity: 0.6 to 12 microvolts per digit.

Accuracy: 0.01% of full scale or +/- one digit, whichever is greater.

Data Output: Serial ASCII 20 mA current loop with selectable baud rates (150–19.2K), selectable auto or manual print, continuous data out, or bi-directional communication.

Operating Temperature: -10 degrees C to +40 degrees C (+14°F to +104°F).

Humidity: Maximum: 95% RH non-condensing.

Power: 120 or 240 VAC, 50–60 Hz, 25 watts.

Fuse: 1/4A @ 120 VAC, 1/8A @ 240 VAC.

Dimensions: 12" (30.48 cm) H x 10" (25.4 cm) W x 5" (12.7 cm) D.

Weight: 16 lb (7.25 kg).

Compliance with FCC Rules

Please note that this equipment generates, uses and can radiate radio frequency energy. If this equipment is not installed and used in accordance with the instruction manual you are warned that it may cause interference to radio communications. This unit has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a commercial environment. However, if this unit is operated in a residential area, it is likely to cause interference and under these circumstances the user will be required to take whatever measures are necessary to eliminate the interference, at his/her own cost.

Warranty

Flex-Weigh Corporation (hereinafter called FWC) warrants that articles, materials and work furnished by them will conform to specifications, drawings and to other data cited, further stipulating that such material and workmanship shall be free from defect. FWC will repair or replace at its discretion, free of charge, any equipment covered by this warranty which is returned within one year of installation or fifteen months after initial delivery and which upon examination proves to be defective in nature or workmanship.

This warranty does not apply to any FWC product that has been:

- 1) Repaired or modified by anyone other than someone authorized by FWC if in their judgment such repair or modification has detrimentally affected the performance or reliability of the product.
- 2) Improperly installed or not adjusted in accordance with instructions provided by FWC.
- 3) Mishandled, abused, or in the judgment of FWC has been exposed to an environment for which the product was not designed.

This warranty constitutes FWC's exclusive warranty, there being no other warranties expressed or implied, including any warranty of merchantability or fitness for a particular purpose.

Installation Requirements

Maximum performance is guaranteed only when installation of the scale system is performed by a qualified scale technician. For best performance, the AC mains supplying the scale system must be an isolated circuit free from other loads and not in close proximity to inductive or SCR controls.

WARNING: THIS SCALE MUST BE OPERATED FROM AN AC POWER SOURCE THAT PROVIDES AN EARTH GROUND FOR THE SCALE CHASSIS TO ENSURE SAFE OPERATION AND PROPER PERFORMANCE. THE POWER CORD IS THE POWER DISCONNECT DEVICE. CARE SHOULD BE TAKEN NOT TO BLOCK ACCESS TO THE OUTLET IN CASE OF AN EMERGENCY.

Unpacking and Inspection

Remove the weightmeter display from its shipping container. Discard the protective materials. Do not plug the meter into an AC voltage source until completing the inspection of the instrument. With a proper screw driver, loosen the screws holding the lid clasps in place. Open the lid and visually inspect to make sure there are not signs of shipping damage such as broken wires, loose components, or fractured printed circuit boards. This visual inspection is necessary if a shipping claim needs to be processed. Every care has been taken to minimize potential damage that could occur if rough handling is experienced in transit.

Handbook 44 Requirements

The following applies to Model DWM-IV weightmeters used on Handbook 44 applications.

- 1) Wire seal provision is required on access lid.
- 2) Piece count feature must be disabled (Step F5.0 of SET-UP procedure).
- 3) RFI (Radio Frequency Interference) protection kit option is required in areas where RFI is present.