Avery Weigh-Tronix
SIMPLY ACCURATE

Model 640M
Compact Multipurpose Indicator

TECHNICAL SPECIFICATION

Durable & Accurate
100 Channel Memory
Compact
Great Value

The Model 640M is a feature packed compact multipurpose indicator which provides simple, accurate and reliable weighing for all Ag applications. The small size makes it ideal for use where space is limited.

- The 100 channel memory tracks weigh count, accumalitve average and total weight.

- Easily interfaces to remote display via optional RS-232 or RD40/XL port

- Capable of RF remote control of all key functions with RF RD40RF option

- Capable of driving up to ten 350 ohm weigh bars

FEATURES & BENEFITS

Simple Operation – ZERO key zeros the scale, PRINT key transfers weight data to printer, computer, or transfer data module (TDM-40).

Gross/Tare/Net – G/N key allows viewing of either gross or net weights. TARE key is useful for temporary "zeroing" of the scale.

Readable Display – Large 1.1 inch, 6 digit -14 segment alpha-numeric LCD display, with bright backlighting for low light applications.

Rugged Construction – Seamless polycarbonate enclosure with sealed back panel protect indicator from vibration, impact, moisture and dust.

HOLD – Holds weight constant when moving mobile equipment (i.e grain carts, mixers, weigh carts, etc.).

Auto-LOC – "LOCK On and Hold" livestock weights on the display for easy viewing.

Motion Filtering – Enhanced dual "harmonizer" filtering settles down weight display for easy viewing. Ideal for filtering excess motion on mobile weighing and livestock applications.

Memory Accumulators – 100 six-character alpha-numeric accumulator channels. Useful in identifying fields, seed type, livestock groups, or amounts of recipes batched and or fed.

Accumulate – Access memory channels with the RM key, accumulate manually (M+) or automatically with Auto-LOC.

Reports – Standard G/T/N printouts available, with optional RS-232 port. Additional reports list the individual 100 memory channels.

Front Panel Programming – All setup and calibration can easily be performed from the keypad without having a simulator or weights.

Automatic Shut-Down – Low battery warning. Automatic shutdown below 9 volts and optional programmable sleep mode shutdown after inactivity of scale occurs.

Power Recovery – Returns to same weight display after a power failure, including the latest Tare weight.

INDICATOR OPTIONS

Internal Battery – AWT05-505938 features internal rechargable lith-ion battery. Ideal for use on portable scales or scales used in remote locations.

Printers – CP-103 compact thermal printer available.

RS-232 Port – Bi-directional serial port with battery backed time & date. Multiple printouts available for transfer to printer/ computer or Transfer Data System.

RD40/XL Port – Allows interface to RD40 (1.1 inch) or RD40XL (2.0 inch) remote displays. RD40XL display offers optional XM64 wireless handheld transmitter for remote control of Tare & G/N keys on the 640M.

RF Option – Provides a complete WIRELESS control via the RD40RF, with weight display and all key functions of the 640M. Ideal use for front end loaders, or feed rooms allowing user remote control.

TDM-40 – Transfer Data Module with TDS-40 computer Transfer Data Software.

LCD Remote Displays – RD40 (1.1 inch) RD40XL (2.0 inch)

Wireless Remote Display – RD40RF (1.1 inch wireless)

LED Scoreboard Remote Displays – XLR-6 2" 8 character LED or XLR-8 3.5" 8 character LED

Connectors – Available with 3 weigh cell connector options

1. Single 5 pin AWT connector
2. Two 5 pin AWT connectors
3. Single 4-pin Amp connector

Mounting – Standard V-mount or optional RAM mount.

SPECIFICATIONS

Power: 10 - 17 VDC
  12 VDC @ 55mA - four w/b, no backlight
  12 VDC @ 270 mA - four w/b, backlight

Optional Internal Battery: 14.8V 2200mAh Lithium Ion Battery. Fully charges in two hours. Minimum of 8 hours usage with backlight on at 60% brightness, 5 hours with backlight at 100% brightness or 40 hours run time with backlight off.

Enclosure: Water and dust resistant, structural polycarbonate
  5.5" H x 7.25" W x 3.9" D

Display: 6 digit, 14 segment 1.1" (28 mm) LCD with green-yellow backlight, ten adjustable brightness levels

Display Rate: Selectable 1, 2, or 5 times/second

Unit of Measure: lb or kg

Excitation: 5 volts, drives ten 350 – ohm weigh bars

Analog Range: ± 8 mV/V

Annunciators: lb, kg, auto, motion, gross and net

Operational Keys: ON/OFF, RM, M+, TARE, G/N, HOLD/MENU, PRINT/SELECT, ZERO/CLEAR (audible key feedback)

Capacity Range: 999,999 lb/kg decimal down to 2 places

Increment Sizes: Multiples and sub-multiples of 1, 2, and 5 (.01 up to 500)

Internal Resolution: 64,424,509 counts per mV/V per second

Accuracy: ± 0.1% of applied load or ± one division

A/D Conversion Rate: 60 times/second

Zero Tracking: Off, 0.5, 1, 2, 3, 5, and 10 divisions

Time and Date: Battery backed up real time clock

RS-232 port: Optional bidirectional RS-232 port
  AMP 8 pin circular connector
  Response to ASCII character inputs
  Baud rates (1200 – 115200) Xon/Xoff; Parity selectable, 7/8 data bits

RD40/XL Port: Proprietary RD40/XL protocol, required to interface to RD40 or RD40XL (9 pin AMP circular connector)

RF Port: 802.11B 2.4 GHz WIPORT (required to interface to the wireless RD40RF)

TTL Inputs: Use of XM64 transmitter, programmable inputs from RD40XL only (RM, M+,TARE, G/N, HOLD, PRINT or ZERO/CLEAR)

Environment: -20° to 140° F(-29° to 60° C)

Weight: 2.6 lb (1.2 kg)
  4.0 lb (1.8 kg) shipping weight

Agencies: FCC Class A, CE marked

Warranty: Three years

SMART JUNCTION BOX OPTION

Model 640MSP (Serial Processor) or smart junction box is a Model 640M with the main card and no display. The 640MSP comes standard with 4 5-pin AWT connectors and one RS-232 port. Bi-directional command capability includes zero, access gross or net mode and change calibration. Interfaces with bidirectional controls via an AWT computer interface cable.

ACCESSORIES

Remote Display RD40XL

Remote Display RD40RF

Remote Display RD40

TDS-40 Transfer Data Kit

XLR-6 Remote Display

XLR-8 Remote Display

CP-103 Printer

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