

## Avery Weigh-Tronix

The 2060 indicator boasts industry leading technology while providing a simple, user friendly interface to fit every application on the farm.



# 2060

MULTIPURPOSE INDICATOR

# Avery Weigh-Tronix

## STANDARD WEIGHING APPLICATION

This multipurpose application is ideal for accurate reliable weighing on mixers, grain carts, livestock scales, feed bins, seed tenders, and many other applications. With the same features as many of our legacy indicators, the Standard Weighing Application also offers print to file, set point control, simple input via the keypad and an easy to read display in direct sunlight.

## FIELD FOREMAN WITH FARM FOREMAN PC

The 2060 provides the highest efficiency and cost savings by allowing the same indicator to be used in spring with your Seed Tender and in fall with your Grain Cart.

### › Planting

As your operations grows, the window of time to get a crop in stays the same. Field Foreman creates the efficiency you need to plant more acres in less time.

### › Harvesting

Whether it was a good crop, bad crop, high market price or low market price you need to know exactly what came out of your field.

## AXLE TRUCK IN/OUT

Measure the performance of your farming operation! The Model 2060 is an ideal instrument for farm platform scales, truck count scales, livestock scales and grain carts.

- › Gross-tare-net weighing
- › Split axle weighing
- › 1000 Inbound / Outbound Weighing Database
- › 1000 Fleet Truck Database
- › Data accumulation

## TMR LOOKUP RATION MANAGEMENT WITH TMR LOOKUP PC

Effective ration management has a direct impact on your bottom line. Achieve operational efficiency by reducing feed waste, verifying feeding accuracy, and, most importantly, creating the proper ration mix your nutritionist recommends for maximum growth and animal health.



**XLR-6 Remote Display**  
XLR-6 2" (50.8mm)  
Remote Display



**XLR-8 Remote Display**  
33.5" (88.90 mm)  
Remote Display



**CP103 In-Cab  
Printer**



**Visual-Audible  
Alarm**

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[www.averyweigh-tronix.com](http://www.averyweigh-tronix.com)



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2060 Indicator\_spec\_501469.indd  
V5 AWT35-501469



## DESCRIPTION

The Model 640M is a "Miniature" general purpose indicator which provides simple, yet accurate and reliable weighing used on mixers, grain carts, livestock scales, feed bins, weigh carts and many more applications.

The small, compact indicator design makes it ideal for places like truck and tractor cabs where space is limited.

## SPECIFICATIONS

### FEATURES AND BENEFITS

<b>Simple Operation</b>	ZERO key zeros the scale, PRINT key transfers weight data to printer, computer, or transfer data module (TDM-40)
<b>Gross/Tare/Net</b>	G/N key allows viewing of either gross or net weights. TARE key is useful for temporary "zeroing" of the scale
<b>Compact Design</b>	The compact design makes it ideal for places like truck and tractor cabs where space is limited (size: 5.5"H x 7.25"W x 3.25"D).
<b>Readable Display</b>	Large 1.1", 6 digit, 14 segment, alphanumeric LCD display, with bright backlighting for low light applications.
<b>Rugged Construction</b>	Seamless polycarbonate enclosure with sealed back panel protect indicator from vibration, impact, moisture and dust
<b>HOLD</b>	Holds weight constant when moving mobile equipment (i.e grain carts, mixers, weigh carts, etc.)
<b>Auto-LOC</b>	"LOCK On and Hold" livestock weights on the display for easy viewing
<b>Motion Filtering</b>	Enhanced dual "harmonizer" filtering settles down weight display for easy viewing. Ideal for filtering excess motion on mixers and livestock applications
<b>Memory Accumulators</b>	100 six-character alphanumeric accumulator channels. Useful in identifying fields, seed type, livestock groups, or amounts of recipes batched and fed.
<b>Accumulate</b>	Access memory channels with the RM key, accumulate manually (M+) or automatically with Auto-LOC.
<b>Reports</b>	Standard G/T/N printouts available, with optional RS-232 port. Additional reports list the accumulator channels and their count, average, and total accumulations
<b>Front Panel Programming</b>	All setup and calibration can easily be performed from the keypad without having a simulator or weights
<b>Automatic Shutdown</b>	Low battery warning. Automatic shutdown below 9 volts and optional programmable sleep mode shutdown after inactivity of scale occurs
<b>Power Recovery</b>	Returns to same weight display after a power failure, including the latest Tare weight
<b>Warranty</b>	Three years

## USER INTERFACE

Display	6 digit LCD, 14 segment 1.1" (28 mm) green-yellow backlight, ten adjustable brightness levels
Unit of Measure	lb or kg
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 two places
Increment Sizes	Multiple and sub-multiples of 1, 2, and 5 (0.01 up to 500)
Zero Tracking	Off, 0.5, 1, 2, 3, 5, and 10 divisions
Time and Date	Battery backed up real time clock

## PHYSICAL

Enclosure	Water and dust resistant, structural polycarbonate 5.5" H x 7.25" W x 3.9" D
Environment	-20° to 140° F / -20° to 60° C
Weight	2.6 lb / 1.2 kg; 4.0 lb / 1.8 kg shipping weight

## INPUT/OUTPUT

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)

## ELECTRICAL

Power	10 - 17 VDC, 12 VDC @ 55mA - four w/b, no backlight, 12 VDC @ 270 mA - four w/b, backlight. Optional: 115 VAC/12 VDC converter
Excitation	5 volts, drives ten 350 – ohm weigh bars
Analog Range	+/- 8 mV/V
Internal Resolution	64,424,509 counts per mV/V per second
A/D Conversion Rate	60 times/second

## OPTIONS

RS-232 Ports	Bi-directional serial port with battery backed time & date. Multiple printouts available for transfer to printer/ computer or Transfer Data System. Transfer data via print key, broadcast or enquire data.
RD40/XL Port	Allows interface to RD40 (1.1") or RD40XL (2.0") 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.
Printers	Tape and Ticket printers available.
TDM-40	Transfer Data Module with TDS-40 computer Transfer Data Software.
Remote Displays	RD40 (1.1") RD40XL (2.0") RD40RF (1.1" wireless) and large scoreboard displays for permanent installations.
Connectors	Available with choice of scale connectors, including most major scale brands. Also available with two 5 pin connectors for Alley Weigh and Chute Weigh.
Mounting	Standard or RAM® mount.

## APPROVALS

Agencies	FCC Class A CE marked
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640M\_spec\_07264-0014.indd  
V2 07264-0014





**Model 640**  
(1.1" display)



**Model 640XL**  
(2.0" display)

General Purpose Indicator

*Technical Specification*

## DESCRIPTION

The Model 640/XL is a general purpose indicator which provides simple, yet accurate and reliable weighing used on mixers, grain carts, livestock scales, feed bins, weigh carts and many more applications.

## SPECIFICATIONS

### FEATURES AND BENEFITS

<b>Simple Operation</b>	ZERO key zeros the scale, PRINT key transfers weight data to printer, computer, or transfer data module (TDM-40)
<b>Gross/Tare/Net</b>	G/N key allows viewing of either gross or net weights. TARE key is useful for temporary "zeroing" of the scale
<b>Readable Display</b>	6 digit, 14 segment, alphanumeric LCD display, with bright backlighting for low light applications. (1.1") 640 or (2.0") 640XL
<b>Rugged Construction</b>	Seamless polycarbonate enclosure with sealed back panel protect indicator from vibration, impact, moisture and dust
<b>HOLD</b>	Holds weight constant when moving mobile equipment (i.e grain carts, mixers, weigh carts, etc.)
<b>Auto-LOC</b>	"LOCK On and Hold" livestock weights on the display for easy viewing
<b>Direct Connect</b>	Weigh Bars can be connected directly to the indicator, saves on cost of a junction box, and increases reliability
<b>Motion Filtering</b>	Enhanced dual "harmonizer" filtering settles down weight display for easy viewing. Ideal for filtering excess motion on mixers and livestock applications
<b>Memory Accumulators</b>	100 six-character alphanumeric accumulator channels. Useful in identifying fields, seed type, livestock groups, or amounts of recipes batched and fed. Ability to disable the RM and M+ keys hides the functionality of the keys to simplify indicator operation.
<b>Accumulate</b>	Access memory channels with the RM key, accumulate manually (M+) or automatically with Auto-LOC. Print automatically after an accumulation is performed to lessen the number of key presses
<b>Reports</b>	Standard G/T/N printouts available, with optional RS-232 port. Additional reports list the accumulator channels and their count, average, and total accumulations
<b>Front Panel Programming</b>	All setup and calibration can easily be performed from the keypad without having a simulator or weights
<b>Automatic Shutdown</b>	Low battery warning. Automatic shutdown below 9 volts and optional programmable sleep mode shutdown after inactivity of scale occurs
<b>Power Recovery</b>	Returns to same weight display after a power failure, including the latest Tare weight
<b>Printing</b>	Manual and Auto printing of 10 standard formats can help in collection of data. The ability to prefix the current memory channel name to each printout can help keep data organized on printed tickets and reports
<b>Programmable Greeting Message</b>	32 character message display upon power up. Perfect for showing farm, user, dealer or OEM names or an indication of the application.
<b>Programmable Maintenance Timer</b>	Warns the user of scheduled maintenance on mixer, cart, truck, etc.
<b>Hidden Service Key</b>	Programmed to show the dealer name, phone number or website.

## USER INTERFACE

Display	6 digit LCD, 14 segment display green-yellow backlight, ten adjustable brightness levels Model 640: 1.1" (28 mm); Model 640XL: 2.0" (50.8 mm)
Unit of Measure	lb or kg
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 two places
Increment Sizes	Multiple and sub-multiples of 1, 2, and 5 (0.01 up to 500)
Zero Tracking	Off, 0.5, 1, 2, 3, 5, and 10 divisions
Time and Date	Battery backed up real time clock

## PHYSICAL

Enclosure	Water and dust resistant, structural polycarbonate 8.7" H x 10.5" W x 6.0" D
Environment	-20° to 140° F / -20° to 60° C
Weight	5.2 lb / 2.4 kg; 7.2 lb / 3.3 kg shipping weight

## INPUT/OUTPUT

RS-232 Port	Standard 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 RD40XL
RF Port	802.11B 2.4 GHz WIPORT (required to interface to the wireless RD40RF)
TTL Inputs	XM64 transmitter, programmable inputs option on 640 or RD40XL (RM, M+,Tare, G/N, Hold, Print or Zero/Clear)

## ELECTRICAL

Power	10 - 17 VDC, 12 VDC @ 55mA - four w/b, no backlight, 12 VDC @ 270 mA - four w/b, backlight. Optional: 115 VAC/12 VDC converter
Excitation	5 volts, drives ten 350 – ohm weigh bars
Analog Range	+/- 8 mV/V
Internal Resolution	64,424,509 counts per mV/V per second
A/D Conversion Rate	60 times/second

## OPTIONS

Available Ports	Two ports come standard on the M640/XL indicators. Select one RD40/XL and one RS-232, or two RS-232 ports, or two RD40/XL ports
RS-232 Ports	Two bi-directional serial ports are available. These can be used to print multiple formats, communicate to a PC or Data Transfer system, broadcast to remote displays and enquire data. When set in 640PC mode the serial port will accept commands to take control of the indicator, access new loading modes and has the ability to display messages on the M640 display.
RD40/XL Port	Allows interface to RD40 (1.1") or RD40XL (2.0") remote displays. RD40XL display offers optional XM64 wireless handheld transmitter for remote control of Tare & G/N keys on the 640XL.
RF Option	Provides a complete WIRELESS control via the RD40RF, with weight display and all key functions of the 640/XL. Ideal use for front end loaders, or feed rooms allowing user remote control
Printers	Tape and Ticket printers available.
TDM-40	Transfer Data Module with TDS-40 computer Transfer Data Software.
Remote Displays	RD40 (1.1") RD40XL (2.0") RD40RF (1.1" wireless) and large scoreboard displays for permanent installations.
Connectors	Available with choice of scale connectors, including most major scale brands.

## APPROVALS

Agencies	FCC Class A CE marked
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640XL\_spec\_07265-0013.indd  
V2 07265-0013

Indicators to measure  
and control your daily  
operations.

*Frequently Asked Questions*

### 1. Where do I find the user's manual for my new 2060?

You can find the most current information at [www.agscales.com/docs](http://www.agscales.com/docs)

### 2. What application come standard with my 2060 indicator?

From the factory your indicator will be loaded with

- › Standard Weighing
- › Field Foreman
- › TMR Lookup
- › Axle Truck IN/OUT

### 3. Is there an additional cost for each of the different applications?

No. The 4 loaded applications are included with the purchase of the indicator

### 4. What is the cost of the PC packages that accompany some of the applications?

The PC software packages for the TMR Lookup and Field Foreman applications are included at no additional cost and can be downloaded at [www.agscales.com/docs](http://www.agscales.com/docs).

### 5. Can I run multiple applications at the same time?

No. Each application is designed to run independently but can quickly be changed through the indicator front panel.

### 6. How hard is it to change between applications?

Changing applications is as easy as going into a password protected screen on the indicator, selecting the application and letting the indicator update. The only thing you will have to check is whether or not the Calibration Configuration Codes match for the two scales.

### 7. How many weigh bars can I hook directly to the 2060 indicator?

You can hook 4 Weigh Bars directly to the indicator, but if needed the indicator can drive up to 16 Weigh Bars with the use of a j-box.

### 8. What do I use to get the information off my indicator?

With the use of a common USB memory device you can easily transfer data from the indicator to your PC.

### 9. What ports does my indicator come with?

The indicator comes from the factory with 2 RS232 ports, 1 I/O port, 1 USB port, and depending on the configuration you pick either the 4 bar 5 pin setup or single 4 Pin AMP connection.

### 10. Can I run 2 remote displays with my single indicator?

Yes

### 11. What peripherals can be hooked to the indicator?

There are several options to hook to your 2060

- › XLR Series Remote Displays
- › CP series printer
- › Visual/Audible Alarm
- › Any device that can except a serial output string

### 12. If I own an existing 2060 can it be upgraded?

If you currently own an older 2060 indicator it can be updated to with the new features. It is required that a dealer perform the updates the first time, but application updates can be done going forward. There will be a fee to upgrade the indicator.

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