Avery Weigh-Tronix

640/XL

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

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	6 digit, 14 segment, alphanumeric LCD display, with bright backlighting for low light applications. (1.1") 640 or (2.0") 640XL
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
Direct Connect	Weigh Bars can be connected directly to the indicator, saves on cost of a junction box, and increases reliability
Motion Filtering	Enhanced dual "harmonizer" filtering settles down weight display for easy viewing. Ideal for filtering excess motion on mixers and livestock applications
Memory Accumulators	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.
Accumulate	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
Reports	Standard G/T/N printouts available, with optional RS-232 port. Additional reports list the accumulator channels and their count, average, and total accumulations
Front Panel Programming	All setup and calibration can easily be performed from the keypad without having a simulator or weights
Automatic Shutdown	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
Printing	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
Programmable Greeting Message	32 character message display upon power up. Perfect for showing farm, user, dealer or OEM names or an indication of the application.
Programmable Maintenance Timer	Warns the user of scheduled maintenance on mixer, cart, truck, etc.
Hidden Service Key	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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www.averyweigh-tronix.com