



Model 640  
(1.1" display)



Model 640XL  
(2.0" display)

## Model 640/XL

### General Purpose Indicator

TECHNICAL SPECIFICATION

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.

#### 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** – 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.

#### 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 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 640XL.

OPTIONS CONTINUES >

# Model 640/XL General Purpose Indicator

**OPTIONS CONTINUED ...**

**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.

**SPECIFICATIONS**

**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

**Enclosure:** Water and dust resistant, structural polycarbonate  
8.7" H x 10.5"W x 6.0" D

**Display:** 6 digit, 14 segment LCD display green-yellow backlight, ten adjustable brightness levels  
Model 640: 1.1" (28 mm)  
Model 640XL: 2.0" (50.8 mm)

**Display Rate:** Selectable 1, 2 or 5 times per 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)

**Remote Displays** – RD40 (1.1 inch ) RD40XL (2.0 inch) RD40RF (1.1 inch wireless) and large scoreboard displays for permanent installations.

**Connectors** – Available with choice of scale connectors, including most major scale brands.

**Junction Box** – Weigh Bar junction boxes.

**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:** Standard bi-directional 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/XL

**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 from RD40XL (RM, M+, TARE, G/N, HOLD, PRINT or ZERO/CLEAR)

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

**Weight:** 5.2 lb (2.4 kg), 7.2 lb (3.3 kg) shipping weight

**Agencies:** FCC Class A, CE marked

**Warranty:** Three years

**ACCESSORIES**



Remote Display RD40XL



Remote Display RD40RF



Remote Display RD40



TDS-40 Transfer Data Kit

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Scales for Agribusiness



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