



Model 640M

Compact General Purpose Indicator

TECHNICAL SPECIFICATION

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

The small size makes it ideal for places like truck and tractor cabs where space is limited.

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.

Compact Design – 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).

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 mixers 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 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 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.

OPTIONS

RS-232 Port – 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 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.

Printers – Tape and Ticket printers available.

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

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. Also available with two 5 pin connectors for Alley Weigh and Chute Weigh.

Mounting – Standard or RAM® mount.

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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
 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 (-20° 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

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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