



Model 1040



Model 1040XL

## Model 1040/1040XL

### Batching Indicators

#### TECHNICAL SPECIFICATION

Manage a TMR feeding program from start to finish. The Model 1040XL is a powerful batching indicator designed for today's modern dairy or feedlot operation.

- Ration formulation
- Pen feedings

#### FEATURES & BENEFITS

The Models 1040 and 1040XL are full-featured indicators that simplify batching and help manage feed costs.

**Large Display** – easy-to-read, regardless of mounting location or lighting conditions.

**Automatic Ration Adjustment** – ensures proper ration balance and eliminates guesswork after first ingredient is loaded. (on/off selectable)

**Alpha-Numeric Keypad & Display** – allows user to spell out names or assign numbers for ingredients, rations, and pens.

**Internal Memory** – stores ingredients (100), recipes (100), pens (100) and completed batch records (last 100).

**Flexible Programming** – gives choice of entering recipes by percentage, amount per ingredient, or amount per animal.

**Accumulators** – provides usage history of individual ingredients, recipes, and pens for inventory management.

**Time of Day Recording** – records all ingredient and pen transactions to evaluate operator performance.

**Six Digit ID** – identifies truck or operator.

**Audible/Visual Feedback** – keypad and display provides feedback to reduce errors and confirm operator accuracy when entering or editing data.

**External Alarm Connector** – allows use of external audible alarm or light when target weight is reached.

**Extra-Bright LED** – large, front-panel alarm light indicates when loading/unloading target weight is reached.

**Automatic Mix** – engages after last ingredient to ensure consistent blending of every batch with programmable count-down timer with optional speed sensor input.

**Advanced Digital Filtering** – minimizes the effects of vibration/motion on the scale.

**Hold Key** – provides stable weight readings when moving mixer between loading/unloading locations.

**Multiple I/O Ports** – connects external devices such as remote displays, printers, revolution counter, memory module, and PC.

**Self-Diagnostics** – displays messages, simplifies troubleshooting.

**Automatic Shut-Off** – activates if voltage falls or rises beyond limits or user-programmed sleep timer expires.

**Weatherproof Design** – stands up to harsh environments for years of accurate, reliable service.

**History** – provides mixer history: total number of batches, tons, hours and number of times mixer was overloaded.

#### OPTIONS

**RD64/RD64XL Remote Displays** – extra-large 2.0" LCD display (RD64XL) or 1.1" (RD64) is easy-to-read with fiber-optic backlight, day or night.

**XM64 Transmitter/Receiver** – allows wireless remote control of tare, gross/net, or ingredient advance when away from the indicator. Available with 1040/1040XL indicator or RD64/RD64XL remote display.

**RD64M Remote Display** – compact unit ideal for mirror mounting or other limited space.

**RD40-RF Remote Display** – wireless unit communicates via RF to allow placement inside loader cab for ultimate viewing convenience.

**RF Transfer** – allows wireless interface to RD40-RF remote display or wireless transfer of RS-232 port.

**Speed Sensor Input** – monitors mixer speed and automatically adjusts mix time.

**Transfer Data System** – consists of a memory module (TDM-40) and PC software package (TDS-1040) for simple means of uploading/downloading information between PC and indicator. Changes to recipe/pen requirements are easily transferred to indicator and completed batch records/pen feedings are easily transferred to PC.

**Feed Management Software** – interfaces to several industry standard feed management software packages.

# Model 1040/1040XL Batching Indicators

## SPECIFICATIONS

**Power Requirements:** 10 - 18 volts DC, negative ground  
400mA @ (8) 350-ohm  
weight sensor load

**Excitation:** 10 VDC (± 5 VDC)  
Drive up to ten 350-ohm weight sensors

**Display:** 6-digit, 14-segment LCD (alpha-numeric),  
fiber-optic backlight

**Display Height:**  
Model 1040: 1.1"  
Model 1040XL: 2.0"

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

**Units of Measure:** lb or kg

**Annunciators:** Alarm, Auto, Gross, Hand-Add, Ingredient, kg, lb,  
Load, Motion, Pen, Recipe, Usage

**Operational Keys:** 0-9 (alpha), RECIPE, GROSS, PEN, LOAD/  
UNLOAD, HOLD, TIMER, MENU, SELECT, PRINT, USAGE, ID,  
ZERO/CLEAR, ON, OFF (audible key acknowledgment)

**Capacity Range:** Up to 200,000 lb/kg

**Increment Sizes:** .01, .02, .05, .1, .2, .5, 1, 2, 5, 10,  
20, 50, 100, 200 lb/kg

**Internal Resolution:** Up to 4,200,000 counts

**A/D Conversion Rate:** 60 times/second

**Zero Tracking:** Off, .5, 1, 2, 3, 5, 10 divisions

**Time and Date:** Battery protected real-time clock

**Communications:** Two RS-232 bi-directional serial ports w/  
selectable output formats – Standard, Broadcast, Transfer Data  
Module (TDM)

**TTL Inputs:** Two programmable inputs (Std, Zero Clear, Menu,  
Hold, Print)

**Self Diagnostics:** Display, keypad, I/O ports, voltage, relay,  
software

**Enclosure:** Structural polycarbonate,  
IP65 rating (dust/water/impact resistant),  
8.7" H x 10.5" W x 6.0" D  
(221 mm H x 267 mm W x 152 mm D)

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

**Environment:** -20° to 140° F (-29° to 60° C) to  
95% non-condensing humidity

**Weight:** 5.5 lb / 2.5 kg  
7.4 lb / 3.4 kg shipping weight

**Agencies:** FCC Class A,  
CE (European Approval)

**Warranty:** Three Year

## ACCESSORIES



RD40-RF Remote Display



RD64XL Remote Display



RD64M Remote Display



TDS-1040 Transfer Data Kit

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Scales for Agribusiness



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