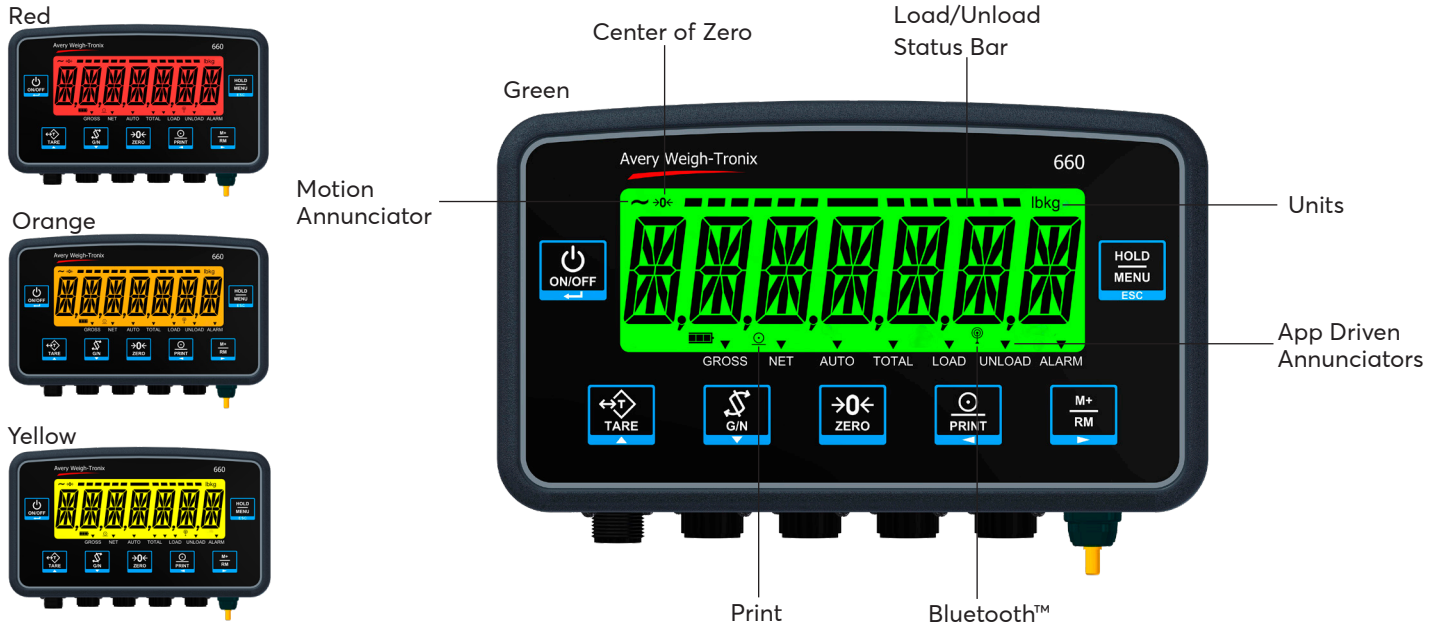


# 660 INDICATOR

## Specifications

The 660 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 farm applications.



## General

<b>Simple Operation</b>	ZERO key zeros the scale, PRINT key transfer weight data to printer, computer, USB, or internal micro-SD card
<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>	Transflective HTN LCD segments for readability in direct sunlight. Seven 1.5" (38 mm) high fourteen-segment alphanumeric digits for distant viewing. Color changing backlight illumination (Green, Red, Yellow, or Orange).
<b>Rugged Construction</b>	Glass filled plastic enclosure with sealed back panel to protect indicator from vibration, impact, moisture and dust. IP56 certified.
<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 the 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>	200 seven-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 RS232 and USB ports standard. 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 or mobile app without having weights
<b>Automatic Shutdown</b>	Automatic shutdown below 9V 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.

## User Interface

Display	HTN illuminated, seven fourteen-segment, 1.5" (38 mm) high alphanumeric digits, with color changing backlight (Green, Red, Yellow & Orange)
Unit of Measure	lb or kg
Annunciators	lb, kg, auto, motion, gross and net
Operational Keys	On/Off, Tare, G/N, Zero, Print, M+/RM, Hold/Menu (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 proof to IP56 standard. 6.5" H x 10" W x 2.88" D. Shipping dimensions: 8.75" H x 13.25" W x 4.5" D.
Environment	-20° to 140° F (-28° to 60° C)
Weight	3 lb (1.4 kg). Shipping weight: 4 lb (1.9 kg).

## Input/Output

RS232 Port	Two standard RS232 channels through single DB9 pin connector. Baud rates (1200 - 115200), parity selectable, 7/8 data bits.
USB	External water-resistant USB A connection for printing or USB flash memory
Bluetooth®	BLE used to connect to Remote Assist™ Mobile IOS, Android, Windows App
Micro-SD Slot	Supplied with 16GB micro-SD card (32GB max size card)

## Electrical

Power	12-24VDC, 12VDC @ 155mA - four w/b, no backlight, 12VDC @ 200mA - four w/b, backlight. Optional external AC/DC converter.
Excitation	5VDC, drives eight 350-ohm Weigh Bars
Analog Range	+/- 8 mV/V
Internal Resolution	53,687,100 counts per mV/V per second
A/D Conversion Rate	80Hz

## Approvals

Power & EMC	FCC Class A, NOM
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