



DESCRIPTION

General

The E1010 Checkweigher from Avery Weigh-Tronix, combines rugged stainless steel construction with the proven accuracy of specially designed stainless steel load cells.

The foundation of the AWTX checkweighers are the patented Avery Weigh-Tronix bases, the industry standard for durability.

Design

The Avery Weigh-Tronix E1010 indicator enclosure is designed with integrity & enhanced readability featuring an exclusive stainless steel enclosure with a NEMA 6/4X Rating. The Model E1010 is impervious to moisture and resistant to washdown pressure. It is ideal for food manufacturing industries as well as wet, dry, indoor and outdoor environments.

The checkweighing: display includes a multi-segment fan graph for fast evaluation so operators can instantly verify that products are within target ranges or above or below acceptable tolerance.

The E1010 Checkweigher is completely washdown safe and perfect for tough environments. It features stainless steel construction including base, column, load cell and NEMA 6/4X display enclosure. The standard display housing tilts from vertical to 20 degrees upward.

Features

- Fast-reading light emitting digits - the Model E1010 also features new light emitting display technology with large digits (0.8 inch) providing superior readability. The lighted digital readout is projected clearly making it easily seen from a distance or in dim, steamy or dust-prone indoor environments.
- Numeric keypad
- Multiple print formats
- Easy operation for all-purpose weight measurement
- Two RS-232 ports
- Single load cell design – No moving parts provides for lower maintenance.
- NTEP at 3,000d Class III
- Proven resistance to washdown, Suitable for food processing environments.
- The optional battery power version provides the added versatility of mobile operation for many applications.



E1010 checkweigher

Technical Specification

SPECIFICATIONS

Environment

-10 to 40° C (14 to 104° F) approved
-20 to 60° C (-4 to 140° F) non-legal

10 to 90% noncondensing humidity

Agencies

NTEP, EU Trade Approved, Canadian Weights and Measures, UL/CUL, CE marked, USDA compliant

Power Requirements

100-240 Volts AC @ 600 mA

50/60 Hz

Optional internal battery

Indicator

Display

Seven-digit, seven-segment, 0.8-inch high
Lighted STN Transmissive

Display rates

Display rate Selectable (1, 2, 5, 10)

Operational annunciators

Center of Zero, Motion, Gross, Tare, Net,

Battery status

Under/Target/Over

Units of measure (LB, KG)

Peak, Print, OP1, OP2, OP3

A/D Conversion Rate

60 times per second

Internal resolution

41,248,140 counts per mV/V per sec

Excitation for Load Cells

5 volts

Supports up to four 350-ohm weight sensors

Analog signal input range

+/- 12 mV/V

Analog input sensitivity

0.2 μ V/divisions minimum

1.0 μ V/divisions recommended

Controls

Operational keys

Tare, Select, Zero, Print, Units, F1, Clear, Mode, Escape, Enter, On/Off, 0-9 numeric and decimal point

Unit of measure:

Three, independently programmable (lb, kg, and custom)

Construction

Stainless steel NEMA 6/4X

Optional Battery

23 hours of continuous operation with one weight sensor;
15 hours of continuous operation with four weight sensors.

Standby mode extends battery life



Calibration and Programming

2 to 5 points stored of digital multi-point (five point) calibration.

Theoretical calibration entry possible if weight sensor parameters are known.

Increment Multiplier: 1, 2, 5, 10, 20, 50, 1/2, 2/5, 5/10, 10/20, 20/50, 50/100.

Filtering

Selectable averaging: fast, medium and slow.

I/O

Standard inputs

Three logic level inputs for: Zero, Print, Tare, Units, F1

Standard outputs

Three cutoff outputs, open collector design

Serial port RS-232 or 20mA current loop, or RS-422 or RS-485

Capacity selections

999,999 with decimal located from zero to five places

Incremental selections

Multiples and sub-multiples of 1, 2, 5

Programmable selections

Zero range, motion detection, automatic zero tracking, five-point linearization

Time and Date / RAM

Battery backed up real time clock and RAM

Serial Command Inputs

Programmable serial response to ASCII character input, SMA protocol responses (www.scalemanufacturers.org)

Self diagnostics

Display, keys, inputs, outputs, serial port,

Circuitry protection

RFI, EMI, and ESD protection

Temperature Range

-10 to 40° C (14 to 104° F) approved

-20 to 60° C (-4 to 140° F) non-legal

Humidity

10 to 90% noncondensing humidity

Accuracy (indicator)

NTEP Class III 10,000d CC# 04-029

OIML Class III 10,000d CC#. R76/1992-GB1-04.09

Canadian Weights and Measures - AM-5524

EU - UK2723

South Africa and New Zealand - MCA 1775

Australia - NMI No S 457

UL/CUL

CE Marked

Options

- Trips Interface Unit (TIU3)
- Wash down remote foot control
- Battery option kit



Patented Torsion Bases

The innovative Breakaway Load Transfer System keeps dropped loads and side loads from wrenching the shroud and damaging the loadcell.

Proven 500% overload protection

Torsion assembly in the scale base automatically transfers shock loads and overloads away from the load cell to the scale frame. Scale frame and shroud are all corrosion resistant stainless steel, suitable for food processing environments.

Designed washdown resistant

Tough, easy to clean stainless steel construction makes the scale immune to washdown and changes from hot to cold environments.

Cable

Comes standard with a 10-foot load cell cable

Corner load

100% of scale capacity

Construction

NEMA 4X/IP66 – All-stainless steel structure and load cell

Capacities and increments (* factory default - unsealed)

Pounds	Kilograms	Custom (downloadable through e-Tools)
6 x 0.001	3 x 0.0005	Dependent on conversion factor
6 x 0.002*	3 x 0.001	Dependent on conversion factor
12 x 0.002	6 x 0.001	Dependent on conversion factor
12 x 0.005*	6 x 0.002	Dependent on conversion factor
30 x 0.005	15 x 0.002	Dependent on conversion factor
30 x 0.01*	15 x 0.005	Dependent on conversion factor
60 x 0.01	30 x 0.005	Dependent on conversion factor
60 x 0.02*	30 x 0.01	Dependent on conversion factor
100 x 0.02	50 x 0.01	Dependent on conversion factor
100 x 0.05*	50 x 0.02	Dependent on conversion factor

Scale base dimensions

6-lb and 12-lb scales: 8.75" x 8.75" x 3"
(22 cm x 22 cm x 8)

30-, 60-, and 100-lb scales: 12.25 x 13.75 x 3.25
(31 cm x 35 cm x 8 cm)

Environment

14° to 104°F (-10 to 40°C) Water washdown

Accuracy (base)

NTEP CC# 92-173 class III 3,000 divisions (Base)

Measurement Canada Cert# AM-5557 (Base)

EU Trade Approved (Complete scale)

3,000d EC certificate TAC DK0199.41

Patented Diamond Series Bases

The Diamond Series Base has set a high standard for performance. This tough and dependable design can be counted on for a lifetime of hard work.

Extremely reliable

Single load cell design, no moving parts provides for lower maintenance.

150% overload protection

Rugged overload stops protect scale from excessive loads or dropped objects.

Corner load

100% of scale capacity.

Cable

Comes standard with a 10-foot load cell cable.

Construction

NEMA 4X/IP66 – All-stainless steel structure with encapsulated load cell including four (4) rigidly bolted stainless struts

Capacities and increments

Pounds	Kilograms	Custom (downloadable through e-Tools)
100 x 0.02	50 x 0.01	Dependent on conversion factor
200 x 0.05	100 x 0.02	Dependent on conversion factor
500 x 0.1	220 x 0.05	Dependent on conversion factor

Scale base dimensions

100-lb scale: 20" x 20" x 4" (51 cm x 51 cm x 10 cm)

200 & 500-lb scale: 24" x 24" x 4" (61 cm x 61 cm x 10 cm)

Environment

14° to 104°F (-10 to 40°C) Water washdown

Accuracy (base)

NTEP CC# 88-104 III 5,000 divisions (Base)

Measurement Canada Cert# S.WA-3097 (Base)

EU Trade Approved (Complete scale)

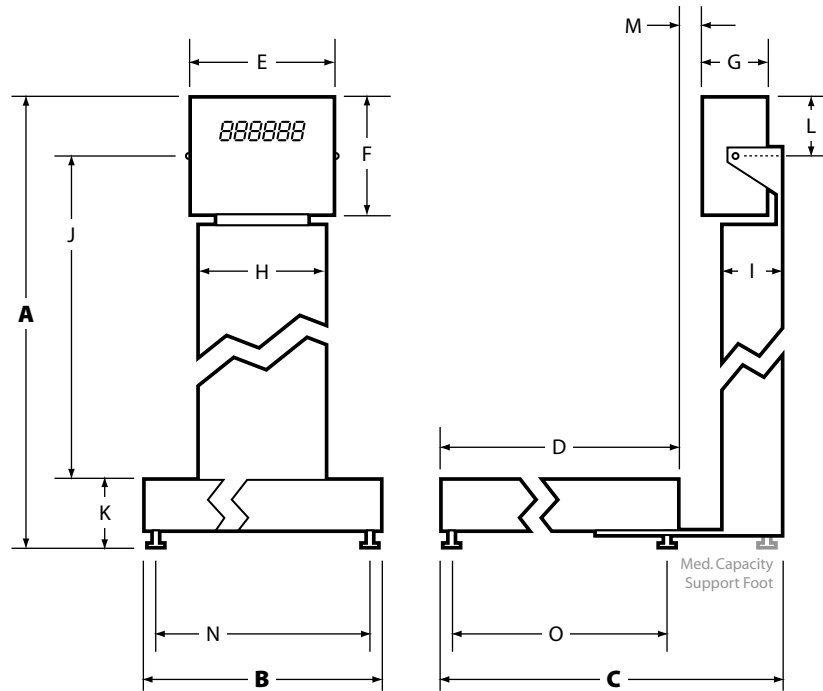
3,000d EC certificate TAC DK0199.41

Options (Diamond Series Only)

- Ball-top shroud – Keep product moving. Reduce operator lifting and bending.
- Portable cart – Move the scale easily from site to site. Double the work of a single scale. Constructed of stainless steel, adjustable height, with attached indicator stand.
- Extended cable length – If your application calls for placing the indicator at a remote location.



PHYSICAL SPECIFICATIONS



Low Capacity Dimensions

Model	Capacity	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
9x9 Standard Tower	6, 12	19.25	8.75	14.62	8.75	9.25	9.25	4.44	7.69	3.66	10.38	2.81-3.31	5.56	.56	6.95	11.68
9x9 Extended Tower	6, 12	25.50	8.75	14.62	8.75	9.25	9.25	4.44	7.69	3.66	16.38	3.06-3.56	5.56	.56	6.95	11.68
12x14 Standard Tower	30, 60, 100	19.25	13.69	17.94	12.19	9.25	9.25	4.44	7.50	3.62	10.38	3.56-4.06	5.56	.75	11.50	10.00
12x14 Extended Tower	30, 60, 100	19.50	13.69	17.94	12.19	9.25	9.25	4.44	7.50	3.62	16.38	3.56-4.06	5.56	.75	11.50	10.00

Medium Capacity Dimensions

Model	Capacity	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
20x20 Standard Tower	100, 200	36.62	20	26.56	20	9.25	9.25	4.44	7.69	3.50	27.06	3.88-4.12	5.56	1.15	18.75	18.75
24x24 Extended Tower	100, 200	36.62	24	30.56	24	9.25	9.25	4.44	7.69	3.50	27.06	3.88-4.12	5.56	1.15	22.75	22.75

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