

E1110 INDICATOR



- ▷ Multi-application configurable indicator and process controller
- ▷ NEMA 6/4X stainless steel enclosure suitable for washdown
- ▷ 1" LED primary display
- ▷ Class III/IIIL approved to 10,000 divisions
- ▷ On-board Ethernet plus two RS232 ports

THE evolution SERIES

The Power of Intelligence

Flexibility, power, value

The Evolution E1110 indicator represents superb value in configurable weighing instrumentation and control technology, developed by Avery Weigh-Tronix's application engineers drawing on over 150 years of world-wide experience. Housed in stainless steel enclosure suitable for wash down, this indicator comes packed with a host of powerful, configurable weighing solutions. The E1110 offers built-in applications and flexibility previously only achievable using programmable indicators often costing much more and requiring custom software.

State of the art communication

Out-of-the-box, the standard E1110 boasts dual RS232 serial ports for connection to printers, remote displays, or even a laptop. An Ethernet port is also included for direct connection to a network or Avery Weigh-Tronix e-tools configuration software.

Local process control is achieved with 3 relay outputs and 3 logic level inputs (expandable to 8 I/O utilizing the optional TIU8).

For industrial networks, the E1110 is available with an optional Fieldbus card, which allows it to communicate with SCADA systems.

The E1110 can support up to 12 x 350 ohm loadcells, expandable to 16 using the optional Analog card. If this option is utilized the indicator can also be configured for dual scale operation, saving the cost of having to purchase a second indicator.

Long cable runs subjected to noisy environments are not a problem. Avery Weigh-Tronix SensorComm's noise-free optional optical transmission technology reliably transfers load cell signals up to 1,000 feet to the indicator.

General weighing

Provide simple gross weighing with totalization.

Specialized applications

Checkweighing: The display includes a multi-segment fan graph for fast evaluation. The operator can instantly verify that product is within target weight and above or below acceptable tolerances.

Counting: E1110 can display the number of pieces or average piece weight as well as Gross, Net or Tare weights.

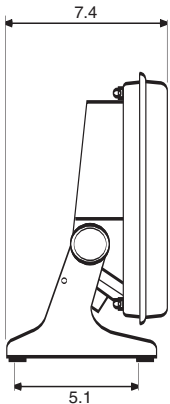
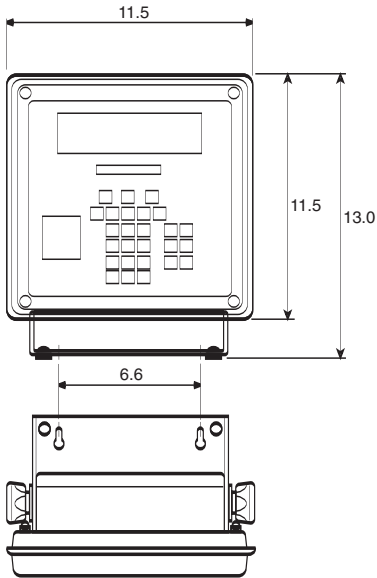
In-Motion Weighing: Weigh product "on the fly" using built-in in-motion weighing functions. This captures the average stable weight of product crossing a conveyor's weigh section.

Peak Weight Capture: Capture and hold the peak weight seen since last reset.

Truck Scale: A full suite of Truck Scale applications are available, including Truck-In/Out, Fleet Management and Dual Scale functionality (requires optional Analog card).

Batching and Filling: Control a complete process using fully configurable trips. Applications include Liquid Filling, Batching, Mixing and Blending.

Avery Weigh-Tronix



All dimensions in inches

Power requirements

- 100 to 230 VAC, 30VA, 50/60Hz

Excitation

- 10 VDC
- Supports up to 12 x 350 Ohm weight sensors

Analog signal input range

- 0 to 20mV

Analog signal input sensitivity

- 0.6 μ V/division

Calibration

- 10 point calibration (including zero & span)

Operational keys (26 keys)

- 0 – 9 Numeric, Decimal & On/Off (12)
- Total, PLU, Scale, ESC, C/CE, Enter (6)
- Tare, Select, Zero, Print, Units (5)
- F1, F2 & F3 (3)

Operational annunciators

- gross, net, tare, motion, under weight fan, target weight, over weight fan, preset tare, custom weight flag, lb and kg (12)
- Scale 1 or scale 2, zero indicator, print (serial), count mode, relay status x 3 (8)

Display

- 1", green LED, 8 digit numerical weight display
- 2 x 20 character alphanumeric backlit LCD display

Analog to digital conversion rate

- 120 conversions per second

Unit of measure

- lb, kg and custom (gram, ounce, ton, tonne, custom setting)

Capacity selections

- 9,999,999 with decimal located from zero to seven places

Incremental selections

- 1, 2, 5, 10, 20, 50, 100, 200, 500, 1/2, 2/5, 5/10, 10/20, 20/50, 1/2/5, 2/5/10, 5/10/20, 10/20/50.

Programmable selections

- Zero range, motion detection, Auto zero tracking

Time and date/RAM

- Battery backed real time clock and RAM

Internal resolution

- 16,777,216 counts per mV/V per second

Standard inputs

- Three logic level, fully programmable

Standard outputs

- Three relay, fully programmable

Communication

- RS-232 Ports
RS-232, RS-485/422 or 20mA current loop (COM1)
RS-232 or RS-485/422 (COM 4)

- Ethernet 100/10 TCP/IP interface

Serial command I/O

- Programmable serial response to ASCII character input
- SMA protocol, Broadcast, Enquire, RD-4100 (XR Series), E-Series remote display

Self diagnostics

- Display, keys, inputs, outputs, serial ports, A to D converter

Circuitry protection

- RFI, EMI and ESD protection

Options

- TIU8. Expands I/O to 8 logic level inputs and 8 relay outputs
- Analog Card includes: additional analog scale interface; two analog scale outputs (1 per scale) using the selections of 0-5 VDC, 0-10 VDC, 4-20 mA and 0-24 mA.
- Digital card. Provides two additional RS232/422/485 asynchronous outputs, one BCD output and one pulse input
- Transaction log card. Records up to 72,000 weighing transactions (gross, net tare together with time and date stamp)
- PROFIBUS DP card
- CONTROLNET card
- Device Net card
- Ethernet IP card
- ModBus TCP card
- External lightning protection box
- SensorComm digital junction box (see separate specification sheet)
- Wall mount bracket
- PS/2 Keyboard

Applications

- General weighing and totalization, Counting, Checkweighing, In-Motion weighing, Peak measurement, Truck scale, Recipe/Filling/Batching, Alarm, Remote display, Totalizer

Operating temperature

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

Enclosure

- Brushed stainless steel NEMA 6/4X, IP67

Weight

- 9.9lb net, 12.6 lb gross

Agencies

- NTEP CC# 04-033. Class III/IIIL; 10,000 divisions
- Measurement Canada. AM-5534C. Class III/IIHD; 10,000 divisions
- UL/CUL
- CE marked

AUTHORIZED DISTRIBUTORS

Avery Weigh-Tronix distributors are complete support centers, providing needs assessment, technical information, product sales and service. Call or visit www.wtxweb.com for your nearest Avery Weigh-Tronix distributor.

Avery Weigh-Tronix



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Specifications are subject to change in accordance with technical modification.
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