BALANCES

COUNTING SCALES

BENCH SCALES

FORKLIFT SCALES

CHECKWEIGHERS

CONVEYOR SCALES

FLOOR SCALES

TRUCK SCALES

RAILROAD SCALES

INDICATORS

SOFTWARE

JUNCTION BOXES

SIGNAL PROCESSING

MONORAIL SCALES

PRINTERS

REMOTE DISPLAYS

Avery Weigh-Tronix
Indicators

Digital indicator with Harmonizer™ filtering

WI-127

- Legal-for-trade, Class III/IIIL 10,000d
- Stainless steel NEMA 4X enclosure
- Bright, easy-to-read, .8 inch LED display
- Three setpoint outputs, options for up to ten
- Seven logic level inputs
- Built-in serial port
- Harmonizer™ filtering software
- Front panel configuration
- Options for system expansion
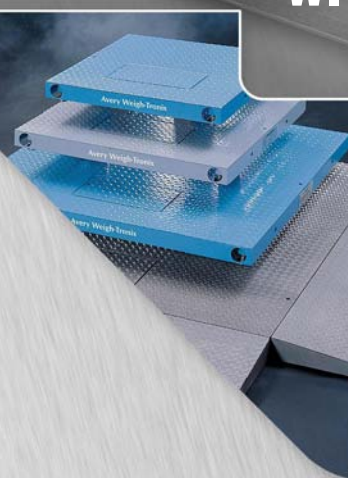
Avery Weigh-Tronix

The WI-127 Indicator from Avery Weigh-Tronix is proving to be the instrument of choice in thousands of industrial settings. It brings a full spectrum of standard features and a flexible options package which make it easily adaptable to almost any application. Seldom will you find the opportunity to purchase a single instrument with this much power and functionality.

Just one instrument with so much capacity for work

ONE INSTRUMENT, MULTIPLE TASKS

One way to gauge the value of a weighing instrument is to measure its ability to grow and adapt to new processes. The WI-127 Indicator switches easily from job to job. The WI-127's operations mode lets you view or change the parameters for all its normal weighing operations: push-button tare; keypad tare entry; one to ten tare registers; setpoint registers; checkweighing values for target weight, over and under; identification number, time and date. Its simple setup allows you to choose any capacity you need.

Use it with a simple floor scale for gross-tare-net weighing. Operators can enter a tare value any of three ways. They can use a container and do a simple push-button tare. They can use the keypad to enter a known tare value. They can select one of the ten tare registers from the instrument's memory bank.

The WI-127's NEMA 4X stainless steel enclosure protects it in harsh industrial settings. It is immune to water, dust, dirt, and changes in temperature.

Its large, bright display is easy to read from a distance. Its lighted digits are visible even in low light environments.

SIMPLE BATCHING SYSTEMS

In order for a weighing instrument to be successful as a batching indicator it must have two critical characteristics. First, it must be capable of overcoming the inaccuracies caused by vibration from wind, traffic, conveyors, augers, loading and unloading of ingredients. And second, it must be expandable to operate a full system.

NOISE AND VIBRATION FILTERING

The WI-127 features the Harmonizer™ fully adjustable filtering system which corrects for environmental noise and vibration. Harmonizer offers three types of application-specific filtering: multiple levels of filtering for vibration frequency, adjustment for amplitude, and finally a selectable "threshold," or a level of weight change at which the dampening is disabled. This speeds the weighing process; the scale reads quickly any weight changes that exceed the selected threshold value.

INPUT/OUTPUT OPPORTUNITIES

To fit effectively into a system, such as a batching or checkweighing operation, scale instrumentation must have the capacity to work with multiple components. That's why the WI-127's designers gave it such flexible input/output capability. It has three standard setpoint outputs for controlling peripheral equipment. It has options for a total of ten outputs.

The WI-127's built-in serial port, which enables you to send scale data to a printer, computer or programmable controller, can be configured to RS-232, RS-422/485 or 20mA current loop.

Operators can use its logic level inputs to provide remote operation of the Zero, Print, Tare, Select and Unit keys in system applications.

INBOUND/OUTBOUND WEIGHING

The WI-127 Inbound/Outbound lets you select from two methods of net weighing. Operators can get a tare weight by a live weighment of an empty container or vehicle. Or they can use the keypad to enter a known tare weight. Operators can store the tare values in the instrument's 300 memory channels. During later weighments the indicator will use the stored tare to automatically calculate the net value and transmit it to computer, printer, or remote display.

In addition, the instrument accumulates and reports scale data. The WI-127 automatically tracks the number of transactions and accumulates the totals for each tare register. After any series of weighments, operators can request a printed report from the WI-127 Indicator. The inbound/outbound report prints the time and date, all truck or container numbers in the database and their corresponding net totals.

IN-MOTION WEIGHING

Two things determine the success of the WI-127 Indicator as an instrument for in-motion weighing. First is the Harmonizer™ filtering system which adjusts to correct for the noise and vibration that is a natural part of most in-motion weighing applications such as monorail and conveyor weighing. The second reason for its success as an in-motion weighing instrument is its speed. As an in-motion weigher, the WI-127 uses two inputs that signal when an object enters and exits the weighing zone. The instrument's one million count analog to digital converter samples at 60 times per second. The indicator averages the weight samples it takes while an object is between the two inputs and then feeds each resulting weight value to a printer or to a data collection device such as a PC.

The WI-127 In-motion Indicator easily expands to a system. For example, you can employ its three standard outputs to operate peripheral devices for a checkweighing system.

SPECIFICATIONS

Power requirements:
> 115 Volts AC, +10% to -15% @ 0.3Amp maximum
> 230 Volts AC, +10% to -15% @ 0.15 Amp maximum
> 50/60 Hz

Excitation: 10 Volts DC
> Supports up to twelve 350-ohm weight sensors

Operational keys:
> Five yellow standard keys: Zero, Tare, Print, Units, Select
> Three function keys: F1, F2, F3
> Numeric keys: 0-9

Operational annunciators:
> Gross, Tare, Net, Print, Zero, Motion, Under, Accept, Over, Cutoff, ID, Three units of measure

Display: Eight-digit, seven-segment, 0. 8-inch high LED

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

Analog to digital conversion rate: 60 times per second

Unit of measure:
> Three, independently programmable: Pounds, kilograms, grams, ounces, ton, tonne, custom, off

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 are standard

Internal resolution: 6,291,456 counts per mV/V per sec.

Harmonizer™ digital filtering:
> Fully programmable to ignore noise and vibration

Standard inputs:
> Seven configurable logic level inputs for functions such as tare, print, zero, units, etc.

Standard outputs:
> Three cutoff outputs, open collector design
> Relay power supply, 24 VDC at 150mA
> 5 VDC at 200 mA for scanner power source
> Bidirectional serial port (RS-232 or RS-422/485 or 20mA current loop)

Serial Command Inputs:
> Programmable serial response to ASCII character input

Self diagnostics:
> Display, keys, inputs, outputs, serial port, A to D converter, voltages

Circuitry protection: RFI, EMI, and ESD protection

Options:
> Two additional serial ports
> BCD parallel
> 16 outputs & 8 inputs
> Analog output
  0-5, 0-10 volts
  1-5, 4-20, 10-50 mA

Operating temperature:
> -40 to 140° F (-40 to 60° C)
> 100% relative humidity including washdown
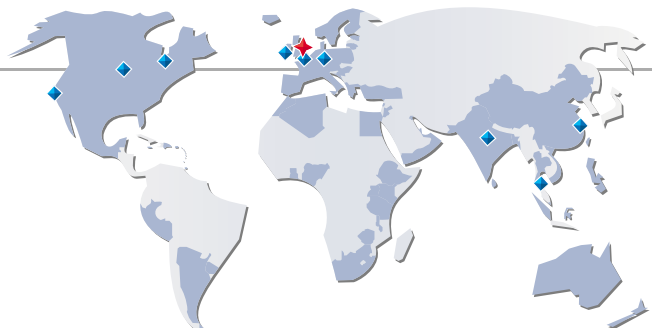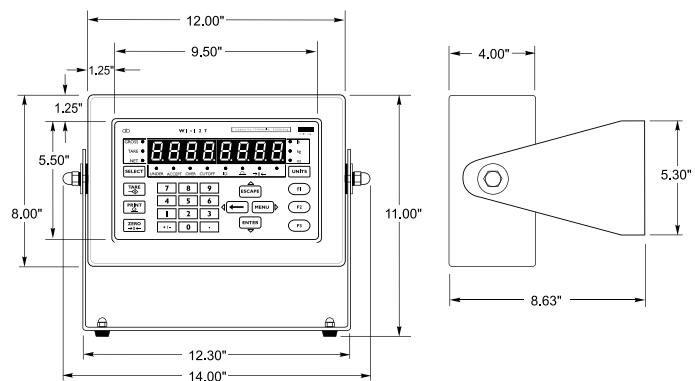
Enclosure: NEMA 4X stainless steel enclosure

Dimensions:
> 12"W x 8"H x 4"D (without mounting bracket)
> 12.3"W x 11.0"H x 5.3"D (with mounting bracket)

Weight: 12.5 lb, 5.7 kg

Agencies:
> NTEP   Class III/IIIL:10,000 divisions
             Certificate of Conformance #96-140.A1
> Canadian Weights and Measures #AM-5167
> FCC Class A
> CSA, CUL, UL

Specifications subject to change without noitice.

Avery Weigh-Tronix

Avery Weigh-Tronix - USA
1000 Armstrong Drive,
Fairmont, MN 56031-1439   USA
usinfo@awtxglobal.com
Toll-Free: (800) 533-0456
Phone: (507) 238-4461

Avery Weigh-Tronix - UK
Foundry Lane, Smethwick,
West Midlands B66 2LP   UK
info@awtxglobal.com
Phone: +44 (0) 8453 66 77 88
Fax: +44 (0) 121 224 8183

Please call us or visit *www.averyweigh-tronix.com*
for your nearest Avery Weigh-Tronix distributor