



WI-127 Inbound/Outbound User's Manual

UNITED STATES

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CANADA

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la Class A prescrites dans le Reglement sur le brouillage radioelectrique que edicte par le ministere des Communications du Canada.

EUROPEAN COUNTRIES

WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which the user may be required to take adequate measures.



CAUTION

Risk of electrical shock. Do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

Weigh-Tronix reserves the right to change specifications at any time.

Table of Contents

Table of Contents	3
Specifications	4
Introduction	5
Operations Mode	5
Front Panel	6
Keys	6
Standard Scale Keys	6
Function Keys	7
Keypad Keys	7
Directional Keys	7
Annunciators	7
Gross Weighing	8
Method 1: Inbound/Outbund Weighing	8
Capturing an Inbound or Outbound Weight	8
Inbound/Outbound Shortcut	9
Printing a Report	9
Editing and Deleting Channels	9
Method 2: Multiple Tare Registers	10
Defining Tare Registers	10
Creating New Registers or Accessing Existing Registers	10
Entering and/or Editing Tare Register Values	10
Clearing/Deactivating Tare Register Values	11
Editing and Deleting Tare Registers	11
Net Weighing	11
Printing a Report	11
Using Cutoff Registers	12
Viewing Cutoffs	12
Entering Cutoff Values	12
Clearing/Deactivating Cutoff Values	12
Checkweighing	13
Setting Target and Over/Under Values	13
Checkweighing Operation	14
Customizing the Indicator	14
Viewing and Setting Time	14
Viewing and Setting Date	15
Viewing and Editing the ID Number	15
Operations Menu	16
Description of Operations Menu	17
Serial Communication	18
Inbound/Outbound Printouts	18
Tare Register Printouts	19
Error Messages	20
Indicator Diagnostics	21
Test Mode	21

Pages are numbered consecutively beginning with the cover page.

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: INBOUND/OUTBOUND, TARE REGISTER, CUTOFF

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 logic level inputs for functions such as tare, print, zero, units, select, gross and net.

Standard outputs:

Three outputs, open collector design Relay power supply, 24 VDC at 150mA Bi-directional serial port (RS-232 or RS-422/485 or 20mA current loop)

Self diagnostics:

Display, keys, inputs, outputs, serial port, A to D converter, loadcell output display, voltages

Circuitry protection: RFI, EMI, and ESD protection

Options:

Two additional serial ports BCD parallel 10 cutoffs 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

Introduction

The WI-127 Inbound/Outbound is a microprocessor-driven weight indicator designed to interface with an electronic scale. Its purpose is to calculate net weight value and to transmit serially that value, along with other weighing information, to a printer, computer, or programmable controller.

A hallmark of the WI-127 Inbound/Outbound indicator is its versatility in adapting to a broad range of weighing applications requiring calculation of net value.

Two methods of net weighing are available:

- Method 1: Inbound/Outbound Weighing allows you to live-weigh an empty or full container (or vehicle, etc.), with or without transmission of data. Later you may live-weigh the same container for calculation of a net value and transmission of data. The indicator will select the larger weight as the gross weight and always transmit a positive net weight. The first weighing of the container stores its value in memory so that similar weighing operations can continue in up to 300 other channels between the time of the first weighing operation and the second. The indicator will keep track of the number of transactions and accumulate the totals for each inbound/outbound channel.
- **Method 2**: Using Multiple Tare Registers allows you to store tares in two different ways. You may:
 - Live-weigh an empty container and store its tare value in one of 300 tare registers. Then do multiple live weighings with the same refilled container or with containers of equal tare weight value. The WI-127 Inbound/Outbound Indicator will use the tare value you stored in memory for calculation of net value and transmission of data.
 - Enter using the keypad a predetermined weight value in one of 300 tare registers. Then do multiple live weighings with filled containers equal in weight to the memory-stored value for calculation of net value and transmission of data.

The indicator will also keep track of the number of transactions and accumulate the totals for each tare register.

Operations Mode

Operations mode contains all normal weighing operations. In this mode you can view or set the following parameters:

- inbound/outbound channels
- multiple tare registers
- cutoff registers
- target, over and under values
- time
- date
- identification number

Front Panel

The WI-127's front panel consists of 24 keys and fourteen annunciators.



Figure 1 WI-127 Front Panel

Keys	The WI-127's keys are divided into four primary groups:		
Standard Scale Keys	Standard Scale Keys These yellow keys are common to a majority of weighing applications and include SELECT, TARE, PRINT, ZERO, and UNITS.		
	SELECT	Used to switch between the gross, tare, and net display modes. SELECT can also be used to accept a current selection and return to weigh mode from within any menu.	
	TARE	Enters a pushbutton tare in the display mode. Can be configured to accept values through the numeric keypad.	
	PRINT	Used to initiate manual data transmission.	
	ZERO	Zeros the scale in the display mode. Also clears values in numeric entry.	
	UNITS	Switches the units of measure in the display mode. Up to three units of measure are selectable.	

Function Keys	These oval keys, along the right side of the display face, are configurable and are labeled INBOUND/OUTBOUND , TARE REGISTER , and CUTOFF . The default configurations for these keys are:		
Operation of these keys	INBOUND/	OUTBOUND	Accesses inbound/outbound GTN weighing function (see <i>Method 1</i>)
changes with the software	TARE REG	ISTER	Accesses multiple tare registers (see Method 2)
dard, in-motion, GTN)	CUTOFF		Accesses cutoff registers (see Cutoff Registers)
Keypad Keys	These are the twelve square keys which support numeric entry. The key- board keys are labelled 0-9, plus/minus (+/-), and decimal point (.) and are located near the center of the display face.		
Directional Keys	The directional keys are used to navigate through the WI-127's menus. These keys are labeled ESCAPE (up), ENTER (down), ← (left), and MENU (right) and are positioned in a compass-like cluster on the display face. These directional keys are denoted by the small transparent arrows located next to them. ESCAPE, ENTER, and ← also support numeric entry.		
	ESCAPE Exits a menu parameter without saving any changes.		arameter without saving any changes.
	ENTER	Used to end digit entry, accept a change made, or se item from a function list.	
	←	Backspaces (de while in numeri	eletes the last digit or punctuation mark entered) c entry and moves left within a menu.
	MENU	Accesses menu	us and moves right within a menu.

Annunciators

The WI-127 has fourteen annunciators.

TareIlluminates when viewing tare values in the various tare registers.NetIlluminates when indicator is in net weighing mode.Ib, kg, otherIlluminates the active unit of measure in weighing mode.PrintIlluminates when the indicator is transmitting data.ZeroIlluminates when the scale is within ±.25% of increment center of zero.MotionIlluminates when the scale detects motion (within configured motion window).Under, Accept, OverIlluminates relative to respective values stored.IDIlluminates in special display mode during which in- bound and outbound (net) weights are displayed.	Gross	Illuminates when indicator is in gross weighing mode.		
NetIlluminates when indicator is in net weighing mode.Ib, kg, otherIlluminates the active unit of measure in weighing mode.PrintIlluminates when the indicator is transmitting data.ZeroIlluminates when the scale is within ±.25% of increment center of zero.MotionIlluminates when the scale detects motion (within configured motion window).Under, Accept, OverIlluminates relative to respective values stored.IDIlluminates in special display mode during which inbound and outbound (net) weights are displayed.	Tare	Illuminates when viewing tare values in the various tare registers.		
Ib, kg, otherIlluminates the active unit of measure in weighing mode.PrintIlluminates when the indicator is transmitting data.ZeroIlluminates when the scale is within ±.25% of increment center of zero.MotionIlluminates when the scale detects motion (within configured motion window).Under, Accept, OverIlluminates relative to respective values stored.CutoffIlluminates in special display mode during which inbound and outbound (net) weights are displayed.	Net	Illuminates when indicator is in net weighing mode.		
PrintIlluminates when the indicator is transmitting data.ZeroIlluminates when the scale is within ±.25% of increment center of zero.MotionIlluminates when the scale detects motion (within configured motion window).Under, Accept, OverIlluminates relative to respective values stored.CutoffIlluminates when a cutoff entry is made.IDIlluminates in special display mode during which in- bound and outbound (net) weights are displayed.	lb, kg, other	Illuminates the active unit of measure in weighing mode.		
ZeroIlluminates when the scale is within ±.25% of increment center of zero.MotionIlluminates when the scale detects motion (within configured motion window).Under, Accept, OverIlluminates relative to respective values stored.CutoffIlluminates when a cutoff entry is made.IDIlluminates in special display mode during which in- bound and outbound (net) weights are displayed.	Print	Illuminates when the indicator is transmitting data.		
MotionIlluminates when the scale detects motion (within configured motion window).Under, Accept, OverIlluminates relative to respective values stored.CutoffIlluminates when a cutoff entry is made.IDIlluminates in special display mode during which in- bound and outbound (net) weights are displayed.	Zero	Illuminates when the scale is within $\pm .25\%$ of increment center of zero.		
Under, Accept, OverIlluminates relative to respective values stored.CutoffIlluminates when a cutoff entry is made.IDIlluminates in special display mode during which in- bound and outbound (net) weights are displayed.	Motion	Illuminates when the scale detects motion (within configured motion window).		
CutoffIlluminates when a cutoff entry is made.IDIlluminates in special display mode during which in- bound and outbound (net) weights are displayed.	Under, Accept, Ov	rer Illuminates relative to respective values stored.		
ID Illuminates in special display mode during which in- bound and outbound (net) weights are displayed.	Cutoff	Illuminates when a cutoff entry is made.		
	ID	Illuminates in special display mode during which in- bound and outbound (net) weights are displayed.		

Gross Weighing

To perform gross weighing operations, follow these steps:

Power up the indicator. Indicator powers up in gross weighing mode.
 Verify the scale is empty and zero the scale by pressing the ZERO key. Zero weight is displayed and the zero annunciator illuminates.
 Select unit of measure by pressing the UNITS button. The units annunciator will illuminate next to the chosen unit of measure.
 Place weight on the scale. Gross weight is displayed.

Method 1: Inbound/Outbound Weighing

	The inbound/outbound weighing function stores inbound weight and time and date information in up to 300 channels. Then, when the outbound weighment is stored, the indicator peforms an accumulation and prints the net weight.			
Capturing an inbound or outbound weight	 From gross weight display mode, press INBOUND/OUTBOUND. 	is displayed, prompting for a channel number.		
The INBOUND/OUTBOUND key will work only if the indica- tor is in gross weighing mode.	2a. Enter a channel number using the keypad (this will either create a new channel or call up a previously entered one), or			
Channel numbers may be from 1 to 6 numerals in length.	 2b. Use the MENU (forward) and ← (backward) keys to select a previously entered channel 	The channel number is displayed.		
If a new channel was created or if the existing channel had no value for the inbound weight, the captured weight is stored as the inbound weight. If the channel already had an inbound weight, the captured weight is stored as the out- bound weight and is added to the accumulator total. After the outbound weight is printed, the inbound weight is cleared form the channel.	3. With weight on the scale, press ENTER	The weight is captured and the indicator prints the transaction. At the end of an inbound/outbound operation, the inbound and net weights are displayed respectively for four seconds. The ID annunciator illuminates during this special mode.		

Inbound/outbound shortcut

To eliminate a keystroke, use the following shortcut for capturing a weight:

- With weight on the scale, enter the channel number using the keypad . . .
- 2. Press INBOUND/OUTBOUND.

Channel number is displayed.

The weight is captured and the indicator transmits the transaction to a peripheral printer.

Printing a report

This utility is accessed from the Operations Menu shown in Figure 2. You may follow the steps below or refer to Figure 2 for a visual representation.

- 1. From weight display mode, press **MENU**...
- 2. Press ENTER . . .
- G.t.n. is displayed.
- 3. Press ENTER . . .

rEPOrt is displayed.

A report is printed. The default printout is a report of the GTN database information for each channel.

4. To return to weight display mode, press **SELECT**.

10:31 AM	04-07-97
Truck#	Net Total
1	1000 lb
2	1500 lb
3	1000 lb
4	1500 lb
5	0 lb
Truck#	Inbound
5	2000 15

An inbound/outbound report prints:

- the time and date
- all truck numbers in the database and their corresponding net totals
- all truck numbers that only have an inbound weight and their net totals.

Sample Inbound/Outbound Report

Editing and Deleting Channels

You may delete any or all of the channels in your WI-127. To do so, you must access the Operations Menu (Figure 2). The complete menu and descriptions are in the "Customizing the Indicator" section. Please refer to that section.

If your indicator is configured to allow editing of the inbound/outbound channels, you may also: the inbound hour, the inbound date, the accumulator value, and the transaction counter.

Method 2: Multiple Tare Registers

	The multiple tare function provides up may be entered as a live weight (push weight.	to 300 tare registers. Tare weights button tare) or as a keypad entered
Defining Tare Registers	Use these instructions for creating new previously entered registers. Up to 300	v tare registers or for accessing) registers may be used.
Creating New Registers or Accessing Existing Registers	 From weight display mode, press TARE REGISTER 	The current tare register number is displayed. (If no tare registers are present, is displayed, prompting you to enter a tare register number.)
	2a. If creating new registers, enter in the register number using the keypad, or	
	2b. If registers already exist, enter in the register number using the keypad, or use the MENU (forward) and ← (backward) keys to select a tare register	The tare register number is dis-
	3. Press ENTER	The tare value in that register is displayed.
	You are now ready to enter tare values instructions in the following section <i>En Values</i> .	s into these registers. Follow the tering and/or Editing Tare Register
Entering and/or Editing Tare Register Values	Once you have accessed a tare registe edit existing values. Following is the st	er, you may enter new tare values or andard procedure.
	 With the tare value displayed, you can enter/edit a tare value in a register in two ways: 	
	 a. Key in a tare value: Key in your desired tare value using the keypad, then press ENTER or 	The tare value is accepted and the ndicator returns to net display mode.
	b. Use the pushbutton tare: With the tare weight on the scale, press TARE	The new tare value (the weight on the scale) is displayed and ac-cepted.

Editing and Deleting Multiple tare registers in the WI-127 may be edited: you may change the tare value, the net accumulator total, and the transaction counter. You may also clear values from individual or multiple registers and you may delete any or all of the tare registers. To edit and delete tare registers, you must access the Operations Menu

To edit and delete tare registers, you must access the Operations Menu (FIgure 2). The complete menu and descriptions are displayed in the section *Customizing the Indicator*. Please refer to that section for editing and deleting.

Net Weighing

You may view the current or active tare value at any time during a weighing process. From gross or net weighing mode, press **SELECT** until the tare annunciator illuminates. If a tare value is in use, it will be displayed. To perform net weighing with a tare register, the register must already exist and have a tare value stored in it. If you have already set up your tare registers and are ready to perform net weighing operations, proceed to the next section. If you still need to create your tare registers, refer to the section *Defining Tare Registers* on the previous page.

- From the weight display mode, enter the desired tare register number using the keypad . . . Tare register number is displayed.
 Press TARE REGISTER . . . Tare value is displayed in net mode.
 Place weight on the scale . . . Net weight is displayed.
- 4. Press **PRINT** . . .

A printout including time, date, tare register number, and gross, tare, & net weights is performed.

Printing a Report

This utility is accessed from the Operations Menu shown in Figure 2. You may follow the steps below or refer to Figure 2 for a visual representation.

 From weight display mode, press MENU ...
 Press MENU again ...
 Press ENTER ...
 Press ENTER again ...
 A report is printed. T

A report is printed. The default printout is a report of the tare database information for all active tare registers. (See *Method 2* for an example of the default printout.)

5. To return to weight display mode, press **SELECT**.

Cutoff Registers

	The standard WI-127 includes three curaises this number to ten.	utoffs. Adding the optional cutoff card
	When activated (weight on the scale is registers), these cutoffs are all on at th vate as soon as the weight on the scal register.	e less than the weight in the cutoff he same time. Each cutoff will deacti- e matches the value in each cutoff
	Cutoffs may be positive or negative va	lues.
Viewing cutoffs	Cutoff registers may be viewed by two	methods:
	Method A:	
	1. Press the CUTOFF key	1 xx is displayed. The number 1 stands for cutoff register #1 and xx is the current value in register 1.
	 Continue pressing CUTOFF or MENU to scroll forward or ← to scroll backward through the remaining cutoff registers. 	
Press ENTER at any time to exit the cutoff register menu.	Method B: If you know which cutoff register you wish to view, press the number of that register, then press CUTOFF . That particular cutoff register is displayed. You may scroll through the remaining registers by pressing the CUTOFF key consecutively.	
Entering cutoff values	 To enter a cutoff value, 1. Press CUTOFF until the cutoff register you wish to set is displayed. 	3 0 (for example).
	 Enter the cutoff value in one of two ways: 	
	2A. Key in the correct cutoff value using the keypad	3 xx is displayed.
Press ENTER at any time to exit the cutoff register menu.	2B. With active weight on the scale, press TARE	The active weight is set as the cutoff value.
	3. Press MENU or CUTOFF to accept the value and move to the next cutoff register.	
	 To return to weight display mode, press SELECT. 	
Clearing/deactivating cutoff values	To deactivate or clear a cutoff value, set the value to zero.	

Checkweighing

Setting Target and Over/Under Values	The WI-127 is configured to perform of checkweighing parameters are access shown in Figure 2.	checkweighing functions. The sed through the Operations Menu		
	The target value must be considered volume and under. Depending on the target be entered as either actual weight values of the target of t	when determining values to enter for get values, the over/under values can ues or as tolerance values.		
The ACCEPT annunciator does not illuminate when target = 0.	If the target value is zero, you may enter over and under values as actual weight. For example, if the target = 0, over might = 100 lbs, and under might = 50 lbs.This means that any weight between 50 lbs and 100 lbs is acceptable.			
	If the target value is a value other than be set as tolerances. For example, if t under might = -10. This means that an acceptable.	n zero, the over and under values must carget = 100, over might = 10, and ny weight between 90 and 110 lbs is		
	1. Press MENU until	<i>boundS</i> is displayed.		
	2. Press ENTER	OVEr is displayed.		
	3. Press ENTER	The over tolerance is displayed and the OVER annunciator illuminates.		
	4. Using the keypad, enter the new over tolerance value	New value is displayed.		
	5. Press ENTER	OVEr is displayed.		
	6. Press MENU	UndEr is displayed.		
	7. Press ENTER	The under tolerance is displayed and the <i>UNDER</i> annunciator illuminates.		
	8. Enter the new under tolerance value	New value is displayed.		
	9. Press ENTER	UndEr is displayed.		
	10. Press MENU	tArgEt is displayed.		
	11. Press ENTER	The target value is displayed and the <i>ACCEPT</i> annunciator illuminates.		
	12. Enter the new target value	New value is displayed.		
	13. Press ENTER	tArgEt is redisplayed.		
	14. After entering all new values, press SELECT	Indicator returns to display mode.		

Checkweighing	
Operation	

With the indicator in display mode, verify the scale is empty and zero the scale by pressing the ZERO key... Zero vertice and the scale by pressing the display mode.
 Select the unit of measure by

3. Place weight on the scale...

Zero weight is displayed and the zero annunciator illuminates.

pressing the **UNITS** button. . . The units annunciator will illuminate next to the chosen unit of measure.

Weight will be displayed and the *UNDER*, *ACCEPT* or *OVER* annunciator will illuminate.

Customizing the Indicator

	Th sh Fig	e ID number, time, and date are ac own in Figure 2. You may follow the gure 2 for a visual representation.	cessed through the Operations Menu instructions in this section or refer to
Viewing and Setting	1.	From display mode, press MENU until	<i>Hour</i> is displayed.
Time	2.	Press ENTER	The current time is displayed. In the 12-hour clock configuration time is displayed as hours, minutes, and <i>A</i> for A.M. and <i>P</i> for P.M. (e.g. <i>09</i> <i>40 A</i>). In the 24-hour clock configuration time is displayed as hours, minutes, and seconds (e.g. <i>09 40 30</i>).
	3.	Press UNITS to toggle between the 12 hour and 24 hour clocks.	
If you enter an incorrect digit, press ← to clear the display one digit at a time.	4.	 To set the 12 hour clock: a. Key in the time as hh mm. b. Press the +/- key to toggle between A.M. & P.M. c. After the correct time is entered, press ENTER to accept the new time. 	
		 To set the 24 hour clock: a. Key in time as hh mm ss. b. After the correct time is entered, press ENTER to accept the new time. 	
	5.	Press ENTER to view the new time	The new time is displayed.
	6.	Press ESCAPE to return to display mode	Indicator returns to display mode.
14	V	/I-127 Inbound/Outbound User's Manual	

Viewing and Setting the Date

If you enter an incorrect digit, press ← to clear the display one digit at a time.

- 1. From display mode, press **MENU** until. . .
- 2. Press ENTER...
- 3. To change the date, key in the new date using the numeric keypad (the entire date must be entered), then press **ENTER**...
- Press ENTER again to view the new date or Press ESCAPE to return to display mode. . .

dAY is displayed.

The date is displayed as month-dayyear.

The new date is accepted and *dAY* is redisplayed.

Indicator returns to display mode.

Viewing and Editing the ID Number	Th tio	e ID number may be up to 8 digits ir n of the numbers 0 through 9, dashe	n length. It may include any combina- es, and one decimal point.
Viewing the ID number	1.	From display mode, press MENU until	<i>id.</i> is displayed.
	2.	Press ENTER	The current ID number is displayed.
	3.	After viewing, press ESCAPE	Indicator returns to display mode.
Editing the ID number	1.	From display mode, press MENU until	<i>id.</i> is displayed.
	2.	Press ENTER	The current ID number is displayed.
	3.	Enter your new ID number using the keypad. If you make a mistake entering the new ID number, use the ← key to backspace and delete the incorrect digits	New ID number is displayed.
	4.	With your new ID number displayed, press ENTER	The new ID number is saved and the indicator returns to display mode.

Operations Menu

Your WI-127 is configured to display and edit inbound/outbound functions, multiple tare registers, time, date, identification number, and checkweighing functions in the Operations Menu. These parameters can be viewed and changed if allowed. This manual assumes the unit is configured to allow full access to these functions.

To enter the Operations Menu press **MENU**. Use the directional keys to maneuver through this menu:

ESCAPE = up ENTER = down ← = left MENU = right



Operations Menu

Following are descriptions of the various options in the Operations Menu. The indentations represent levels within the menu.

G.T.N.	Accesses inbound/outbound functions (Method 1).		
Report	Prints the group assigned to this function.		
Edit	Allows viewing/editing of channel information. When the edit parameter is sealed, values may be viewed only, not edited (refer to the Service Manual).		
XXX	The current through thand ← (ba	t channel is displayed as the default. Scroll e existing channels by using the MENU (forward) ckward) keys.	
	Inbound	Displays inbound value. <i>None</i> will be displayed if an inbound weight does not exist. Press "0" and ENTER to clear the inbound weight.	
	Hour In	Displays time of inbound weight. This parameter is only offered if an inbound weight already exists.	
	Day In	Displays date of inbound weight. This param- eter is only offered if an inbound weight already exists.	
	Total	The net accumulator value for the selected channel.	
	Counter	The transaction counter for the selected chan- nel.	
Delete	Allows user to clear the channel database. If the database is already clear, <i>dOnE</i> will be displayed and the remaining parameters will not appear.		
Done	e Offered only if the database is empty.		
No	Will not delete the channels. Not offered if database is empty.		
One	Allows user to select a specific channel to delete. Not offered if the database is empty.		
All	Allows user to delete all channels at one time. Not offered if database is empty.		
TARES	Accesses multiple tare registers (Method 2)		
Report	Prints the group assigned to this function.		
Edit	Allows viewing/editing of channel information.		
XXX	The current tareregister is displayed as the default. Scroll through the existing registers by using the MENU (forward) and ← (backward) keys.		
	Tare	Displays the current tare value.	
	Туре	Displays the type of tare. <i>Pb</i> indicates a pushbut- ton tare entered by using the TARE key. <i>EntErEd</i> indicates a tare that was entered through the keypad.	
	Total	The net accumulator value for the selected register.	
	Counter	The transaction counter for the selected register.	
Clear	Allows use counters for empty.	r to clear the accumulators and transaction or the tare registers. Not offered if the database is	
No	Will not clear the accumulators and counters.		
All Clears the accumulators and counters for all tare regulated but leaves the tare values intact.		accumulators and counters for all tare registers the tare values intact.	

Delete	Allows user to delete tare registers. If there are no tare registers to delete, <i>dOnE</i> will be displayed and the remaining parameters will not appear.
Done	Offered only if the register database is empty.
Νο	Will not delete the registers. Not offered if database is empty.
One	Allows user to select a specific tare register to delete. Not offered if the database is empty.
All	Allows user to delete all tare registers at one time. Not offered if database is empty.
HOUR	Allows the user to set the time.
DAY	Allows the user to set the date.
ID	Allows the user to select and change the indicator's identification number.
BOUNDS	Provides access to the checkweighing parameters.
Over	Allows user to set the over value.
Under	Allow the user to set the under value.
Target	Allows the user to set the target value.

Serial Communication

The WI-127 has a bi-directional serial port with RS-232, RS-485/422 or 20 mA current loop communication capability. Your unit may be customized to print according to your needs. Refer to a Service Manual for instructions on customizing the printouts.

Method 1: Inbound/Outbound Printouts

Following are examples of the five default printouts of the WI-127.

Inbound Ticket

Date 04-07-97 Inbound Time 10:30 AM Truck# 4 Transaction 1 Weisht 1500 lb

An inbound ticket prints the date, inbound time, truck number, transaction number, and inbound weight. This ticket is automatically printed after each transaction/ Outbound Ticket

Date 04-07-97 Inbound Time 10:30 AM Outbound Time 10:30 AM Truck# 4 Transaction 1 Gross 3000 lb Tare 1500 lb Net 1500 lb

An outbound ticket prints the date, inbound time, outbound time, truck number, transaction number, and the gross, tare and net weights. This ticket is automatically printed after each transaction.

Inbound/O	utbound Report
10:31 AM Truck#	04-07-97 Net Total
1 2 3 4 5	1000 lb 1500 lb 1000 lb 1500 lb 0 lb
Truck#	Inbound
5	2000 1b

An inbound/outbound report prints the time and date, all truck numbers in the database and their corresponding net totals, and all truck numbers that only have an inbound weight and their net totals. The Operations Menu must be accessed to print this report.

Method 2: Tare Register Reports

Tare Transaction

10:46	AM	04	-07	7-97
Tare#		4		
Gross	300	10	16	
Tare	200	0	16	KP
Net	100	10	16	

When the **PRINT** key is pressed while using a tare register, a printout is performed which includes time, date, the tare register number, and gross, tare, and net weights. The tare weight includes the type of tare: KP if the tare was entered via the keypad or PB if the tare value was entered using the **TARE** key.

Tare Report

10:46 A	M 04-07-97
Tare#	Net Total
1	0 lb
2	1500 lb
3	0 lb
4	1000 lb
5	0 lb
Tare#	Tare wt.
1	500 1b PB
2	1000 lb KP
3	1500 lb PB
4	2000 lb KP
5	1000 lb PB

A tare register report includes, time, date, all existing tare registers with their net totals, and all existing tare register with their tare values and type of tare. The Operations Menu must be accessed to print this report.

Error Messages

The following are displays you may see if problems occur or if invalid operations are attempted with your WI-127:

Display	Description
O. LoAd	Overrange weight.
	Underrange weight.
	Recovering from lock-up or out of range condition.
Loc' up	A-D converter is not functioning.
L.C. Error	A-D converter subjected to an input signal beyond ± 5.00000 mV/V
Can't	The unit cannot perform a function. Displayed only while key is held down.
Flashing	Corrupted data in the reset menus. See the <i>Service Manual</i> . (* = RESET, SETUP, or CAL)
Sealed	Displayed while a key is pressed when attempting to modify a sealed selection without edit privileges.
Auto. 0	Displayed while waiting for a stable, valid weight to use as a zero reference on power-up.
Lo. Volt	Displayed when input voltage to excitation regulator drops below 10.5 VDC. Will clear when input voltage rises above 11.5 VDC.
1 Busy	Displayed when the ready/busy handshake has exceeded its time out limit. Default is 2 seconds. This can also apply to optional 2nd and 3rd serial ports.
too big	Displayed when the net accumulator exceeds its maximum value. Message will appear when trying to view the accumulator total.
full	Displayed if the tare register value does not exist and the memory is full. Displayed only while key is held down.

Indicator Diagnostics

Test Mode

The test mode is used to test various functions of the WI-127. The test menu is shown in Figure 3.

To enter the test menu:

1.	Press and hold ESCAPE for two seconds	About is displayed.
2.	Press MENU two times	tESt is displayed.
3.	Press ENTER	diSPLAY is displayed.

Maneuver through the parameters using the directional keys:

ESCAPE = up ENTER = down ← = left MENU = right

You may exit to display mode at any time by pressing SELECT.



Figure 3 Test Menu

Below are the explanations for the items you see in the test menu.

Display —	Performs a test of the display segments and LEDs. With <i>diSPLAy</i> displayed, press ENTER once to initiate an automatic test. Press ENTER again to stop the automatic test, or press ¬ and MENU consecutively to step through the display test manually. Press ESCAPE to exit the display test.
Buttons —	Performs a test of the keypad. With <i>buttonS</i> displayed, press ENTER and the word <i>nOnE</i> will appear on the screen. Press any key except MENU to check for proper key functioning. The title of each key will appear on the display as it is pressed. After testing the buttons, press MENU .
A to D —	Performs A-to-D test to check the raw offset and gain of the electronics. With <i>A to d</i> displayed, press ENTER to view the A-to-D value. The span is 20,000 counts per millivolt per volt. Press ESCAPE to return to <i>A to d</i> .

Loadcell —	Displays the factory normalized loadcell input. With <i>LOAdCELL</i> displayed, press ENTER to view the counts. Press UNITS to toggle between the counts display mode and mV/V display mode. Span is 200,000 counts per millivolt per volt. Press ESCAPE to return to <i>LOAdCELL</i> .
Serial —	Allows testing of the internal serial ports. With <i>SEriAL</i> displayed, press ENTER to select the port to test. Port 1 is always the internal serial port. (Port 2 and 3 are only offered if extra serial ports are installed.) Press ENTER again to view ready/busy. Then press MENU to view loop/no loop. Press ESCAPE to return to <i>SEriAL</i> .
Outputs —	Allows testing of the outputs. With <i>OutPutS</i> displayed, press ENTER twice to cycle through the available outputs in sequential order. Press ESCAPE— <i>SEqUEnCE</i> is displayed. Press MENU to view the available outputs. Press ENTER to view the status of the outputs. The outputs are numbered left to right, starting with one. A "1" indicates the output is activated; a "0" indicates the output is deactivated. To change the status of the output you wish to change. Toggle the status by pressing ENTER. If the optional I/O board is installed, an additional eight outputs are available under <i>Out. 9-16</i> . Press ESCAPE to return to <i>OutPutS</i> .
Inputs —	Allows testing of the inputs. With <i>InPutS</i> displayed, press ENTER — <i>StAndArd</i> is displayed. Press ENTER again to view the status of each input. The inputs are ordered 1-8 from left to right. A "1" indicates the input is activated; a "0" indicates the input is deactivated. If the optional I/O board is installed, an additional eight inputs are available under <i>OPtion</i> . Press ESCAPE twice to return to <i>InPutS</i> .
Voltages —	Allows testing of the power supply voltages. With VoltAGES displayed, press ENTER to test the unregulated loadcell excitation power supply voltage (13 volts). Press MENU repeatedly to scroll through the remaining power voltages: the -5 volt excitation voltage (-5 volts), the unregulated 5 volt logic supply voltage (10 volts), and the relay supply voltage (24 volts). Press ESCAPE to return to VoltAGES .

Avery Weigh-Tronix

Declaration of Conformance to SMA Standard Year of Declaration 2002 Production Meets Type



Declare in our responsibility the conformance of the above listed models and types to the mentioned certificates and the requirements of the SMA standard.

This declaration becomes valid when the SMA Conformance Logo, having our name or trademark is applied to the device or its accompanying documentation.

* SMA PRODUCTION MEETS TYPE DEVICE MANUFACTURER Conformance Logo and Design are a registered trademark of the Scale Manufacturers Association

Avery Weigh-Tronix

Avery Weigh-Tronix USA

1000 Armstrong Dr. Fairmont, MN 56031 USA Telephone: 507-238-4461 Facsimile: 507-238-4195 e-mail: industrial@weigh-tronix.com www.wtxweb.com

Avery Weigh-Tronix UK

Foundry Lane Smethwick, West Midlands England B66 2LP Tel: +44 870 90 34343 Fax: +44 121 224 8183 Email: info@awtxglobal.com Web site:www.averyweightronix.com

Avery Weigh-Tronix Canada, ULC

217 Brunswick Boulevard Pointe Claire, QC H9R 4R7 Canada Telephone: 514-695-0380 Toll free: 800-561-9461 Facsimile: 514-695-6820 www.weigh-tronix.ca

