

**RICE LAKE**  
RICE LAKE 1280  
Programmable Weight  
Indicator and Controller



# RICE LAKE 1280 Programmable Weight Indicator and Controller Instruction Manual

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**RICE LAKE®**

**RICE LAKE 1280 Programmable Weight Indicator and Controller**



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## Overview

### Overview

The 1280 OnTrak unattended kiosk iRite program is supported by the OnTrak® Enterprise Truck Scale Data Management Software and communicates with the OnTrak Enterprise PC program for all required information.

## Safety

### Safety Definitions:



**DANGER:** Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. Includes hazards that are exposed when guards are removed.



**WARNING:** Indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death. Includes hazards that are exposed when guards are **removed**.



**CAUTION:** Indicates a potentially hazardous situation that, if not avoided, could result in minor or moderate injury.



**IMPORTANT:** Indicates information about procedures that, if not observed, could result in damage to equipment or corruption to and loss of data.

### General Safety

Do not operate or work on this equipment unless this manual has been read and all instructions are understood. Failure to follow the instructions or heed the warnings could result in injury or death. Contact any Rice Lake Weighing Systems dealer for replacement manuals.

## WARNING

- Failure to heed could result in serious injury or death.

- Do not allow minors (children) or inexperienced persons to operate this unit.
- Do not use for purposes other than weight measurement.
- Do not place fingers into slots or possible pinch points.
- Do not use any load-bearing component that is worn beyond 5% of the original dimension.
- Do not use this product if any of the components are cracked.
- Do not make alterations or modifications to the unit.
- Do not exceed the rated load limit of the unit.
- Do not remove or obscure warning labels.
- Keep hands, feet and loose clothing away from moving parts.
- Do not operate without all shields and guards in place.
- Follow all traffic laws while driving.
- Do not impede vehicle traffic.
- Drive cautiously while being aware of surroundings and people.

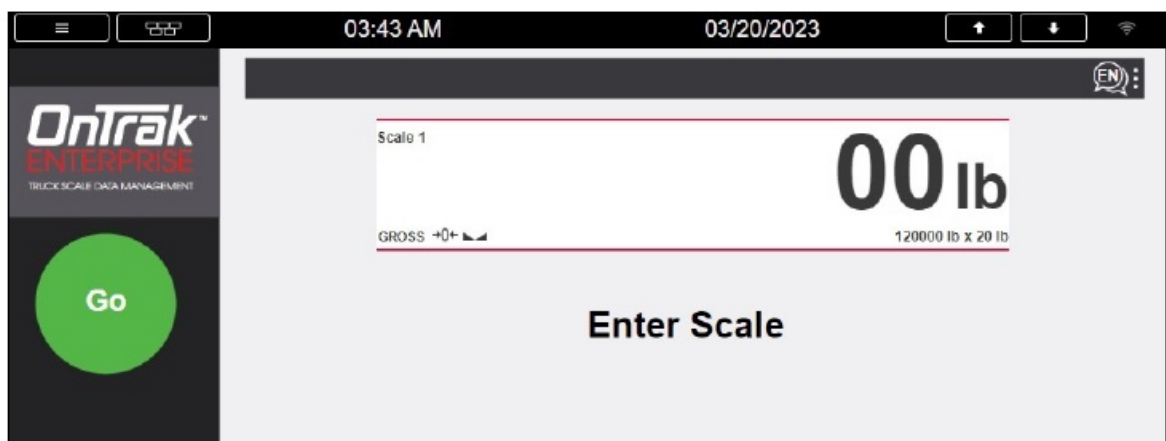
**NOTE:** All translations are configurable in the Language database. After downloading a user program the Language database must be imported using Revolution® Scale Software. If the system displays Language DB Error in the lower left corner, the language database was not imported successfully.

- Shipping and Receiving text is configurable in Setup.

## Truck Processing

The following instructions detail truck processing with a 1280 Enterprise™ Series Programmable Weight Indicator and Controller in an unattended kiosk running OnTrak Enterprise software.

1. Drive truck to the scale and performs, one of the following occurs based on the Loop Detector setting:
  - A. Loop detectors are disabled and scale is empty with a zero value and a green traffic light displayed on the 1280. Enter Scale displays. Proceed to Step 2.
  - B. Loop detectors are enabled and scale is empty with a zero value and a red traffic light displayed on the 1280:
    1. Waiting on Loop Detector displays.
    2. Drive truck to loop detector.
    3. Loop detector activates and the system attempts to zero the scale. If successful or at zero, the system displays Enter Scale and a green traffic light.



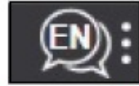
*Figure 2-1. Enter Scale Message*

2. Drive the truck onto the scale and exceed the configurable Threshold weight.
3. (Optional) Select the language button to cycle through available languages.

**NOTE:** All translations are configurable in the Language database. After downloading a user program the Language database must be imported using Revolution. If the system displays Language DB Error in the lower left corner, the language database was not imported successfully.

See 1280 Enterprise™ Series Technical Manual (PN 167659) for information regarding how to import a database.

4.



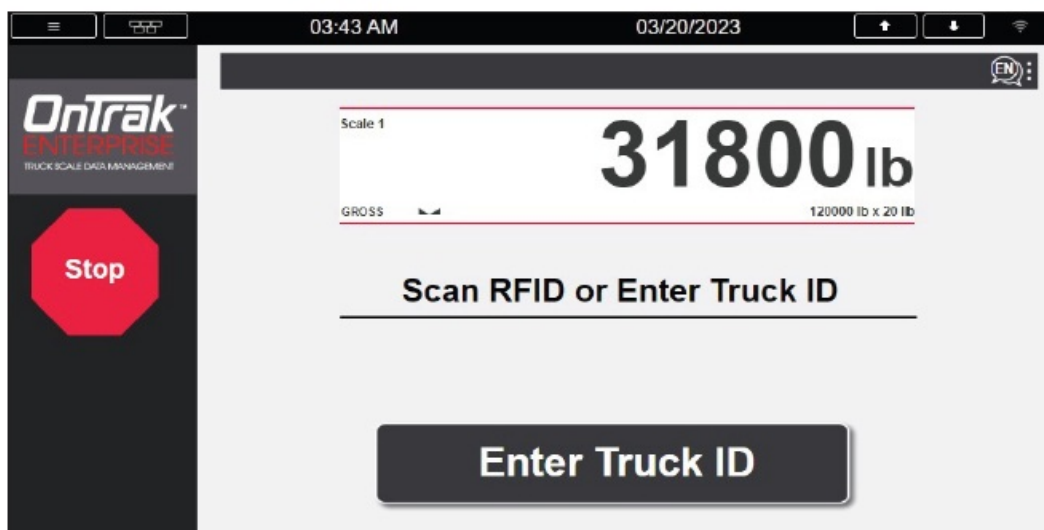
*Figure 2-2. Language Selection Button*

Weight is removed from the Remote Display and one of following occurs:

- Dashes display on LaserLight2™
- NODATA displays on LaserLight3™

**NOTE:** If an indication of when the threshold is exceeded is configurable. Displaying Dashes or NODATA is enabled by default. For more information see section 3.2 on page 12

5. The 1280 validates the Scale Name:
  - A. Proceed to Step 6 if the scale message does not display Please Configure a Scale Name – Exit Scale.
  - B. Perform the following if the scale message displays Please Configure a Scale Name – Exit Scale:
    1. The driver must exit the scale and the attendant must access the 1280 Setup Menu and configure a Scale Name.
    2. The attendant selects Scale Name, the 1280 displays a list of Scale Names.
    3. The attendant selects the required Scale Name and the 1280 is ready to process trucks.
6. If RF tag reader is set as SmartPass in the Setup Menu, enable SmartPass output activates and the traffic light turns red while the 1280 displays Scan RFID or Enter Truck ID. Perform one of the following:
  - A. The RFID (radio frequency identification) was scanned as the truck entered the scale.
  - B. Scan the RFID.
  - C. Select Enter Truck ID, enter the Truck ID followed by DONE.

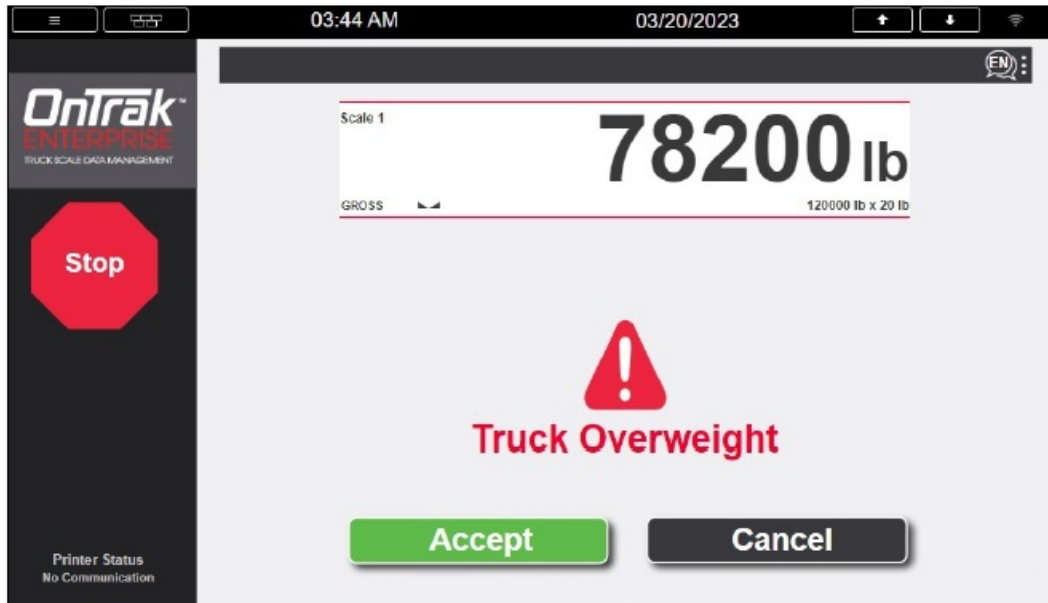


*Figure 2-3. Scan RFID or Enter Truck ID Prompt*

7. The 1280 validates the gross weight against the minimum and maximum weights (configured in OnTrak Enterprise).
  - A. If the gross weight is less than (<) the configured minimum truck weight, the system displays Truck

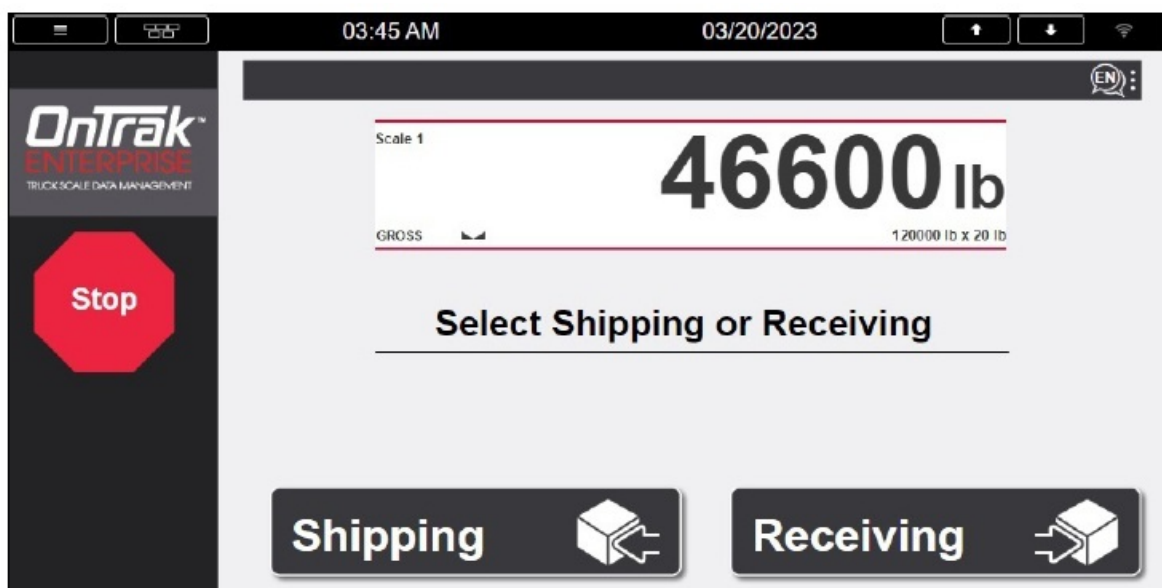
Underweight:

- Select Accept and proceed to Step 8.
  - Select Cancel. Exit Scale and a green traffic light display.
- B. If the gross weight is greater than or equal to ( $\geq$ ) the Maximum Truck Weight, the system displays Truck Overweight:
- Select Accept to proceed to Step 8.
  - Select Cancel. Exit Scale and a green traffic light display.



*Figure 2-4. Truck Overweight Prompt*

8. Depending on tare type the 1280 performs one the following:
- A. If Keyed Tare Weight or Stored Tare Weight is less than ( $>$ ) 0, proceed to Step 9 (Outbound Transaction).
  - B. If Keyed Tare Weight or Stored Tare Weight is 0, Invalid Truck Tare and a green traffic light displays.
  - C. Weighs the truck:
    - The 1280 sends truck inbound data to OnTrak Enterprise. Proceed to Step 10.
    - Inbound data not found, proceed to Step 9 (Outbound Transaction).
9. 1280 displays Shipping and Receiving buttons. The driver selects Shipping (proceed to Step 11) or Receiving (proceed to Step 10) and the 1280 sends the information to OnTrak Enterprise.



*Figure 2-5. Shipping or Receiving Prompt*

**NOTE:** Shipping and Receiving text is configurable in the Setup.

10. The 1280 displays the Job screen with three options:
  - A. Select Default/Inbound Job, activate to initiate the Default/Inbound Job.
  - B. Request Job List, select to view all Jobs from OnTrak Enterprise then select one.
  - C. Continue with No Job, select to advance without a job. Proceed to Step 11.

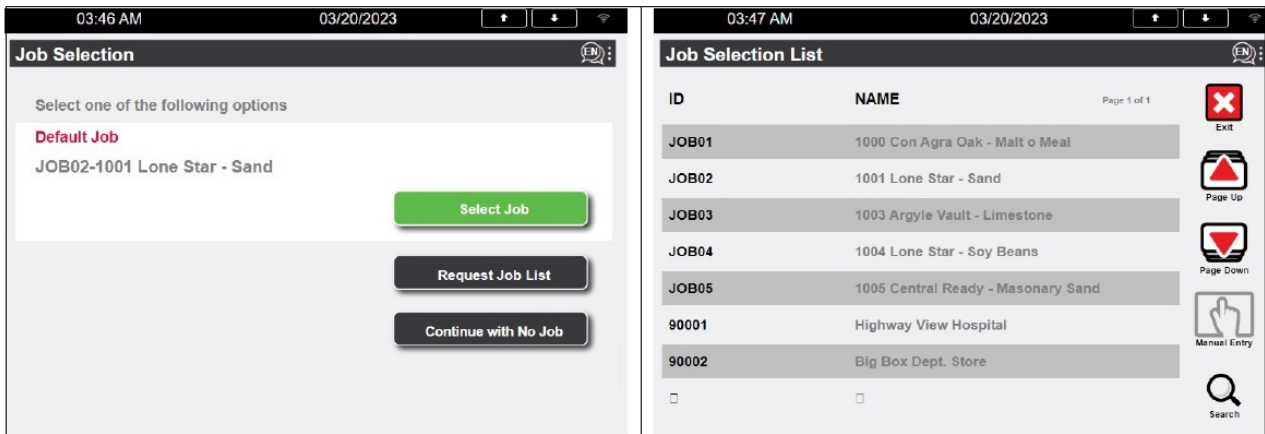


Figure 2-6. Job Selection Prompt and List

11. The 1280 displays the Customer or Vendor screen with three options:
  - A. Select Default/Inbound Customer/Vendor, activate to initiate the Default/Inbound Customer/Vendor.
  - B. Request Customer/Vendor List, select to view all Customer/Vendors from OnTrak Enterprise then select one.
  - C. Continue with No Customer/Vendor, select to advance without a customer/vendor. Proceed to Step 12.
12. The 1280 displays the Product screen with three options:
  - A. Select default/Inbound Product, activate to initiate the Default/Inbound Product.
  - B. Request Product List, select to view all Products from OnTrak Enterprise then select one.
  - C. Continue with No Product, select to advance without a product. Proceed to Step 13.
13. (Optional) Custom user prompts (1 – 3) configured in OnTrak Enterprise display, if required enter data and select DONE button in each prompt.
 

**NOTE:** User Fields only appear if enabled in OnTrak Enterprise. See OnTrak Enterprise Technical Manual (PN 216813) for more information.
14. The system displays all configured information, select Accept to proceed (Step 15) or Cancel to restart the procedure (Step 1).

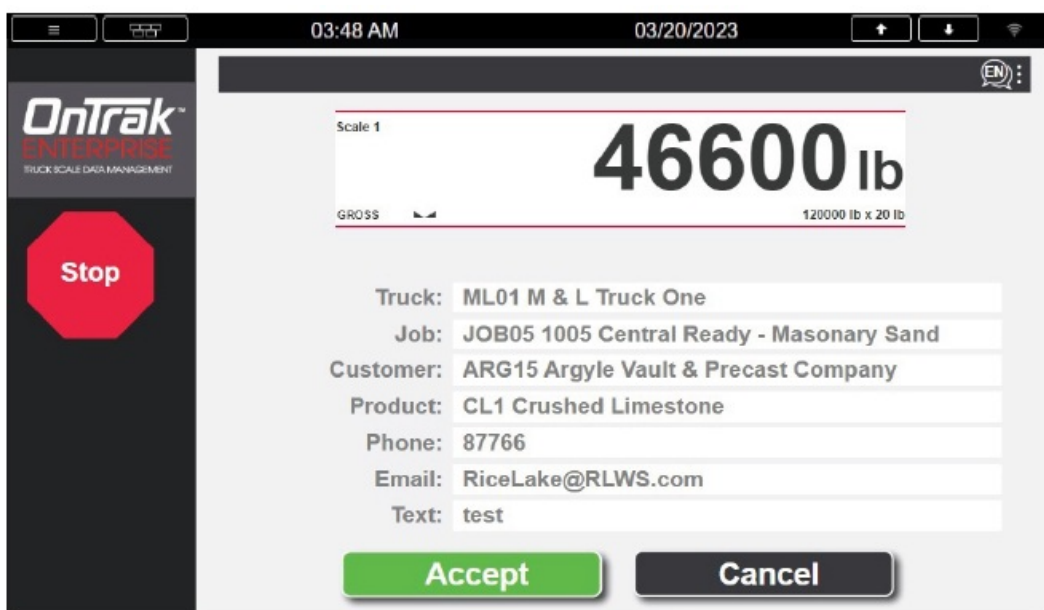


Figure 2-7. Accept Information Prompt

15. The system captures data, calculates weights, stores the transaction in the OnTrak Enterprise database and then prints the ticket.



**NOTE:** The ticket footer and header can be edited from the kiosk (Auxfmt1 and Auxfmt 2).

16. (Optional) Press the ticket reprint button to reprint the **ticket**.

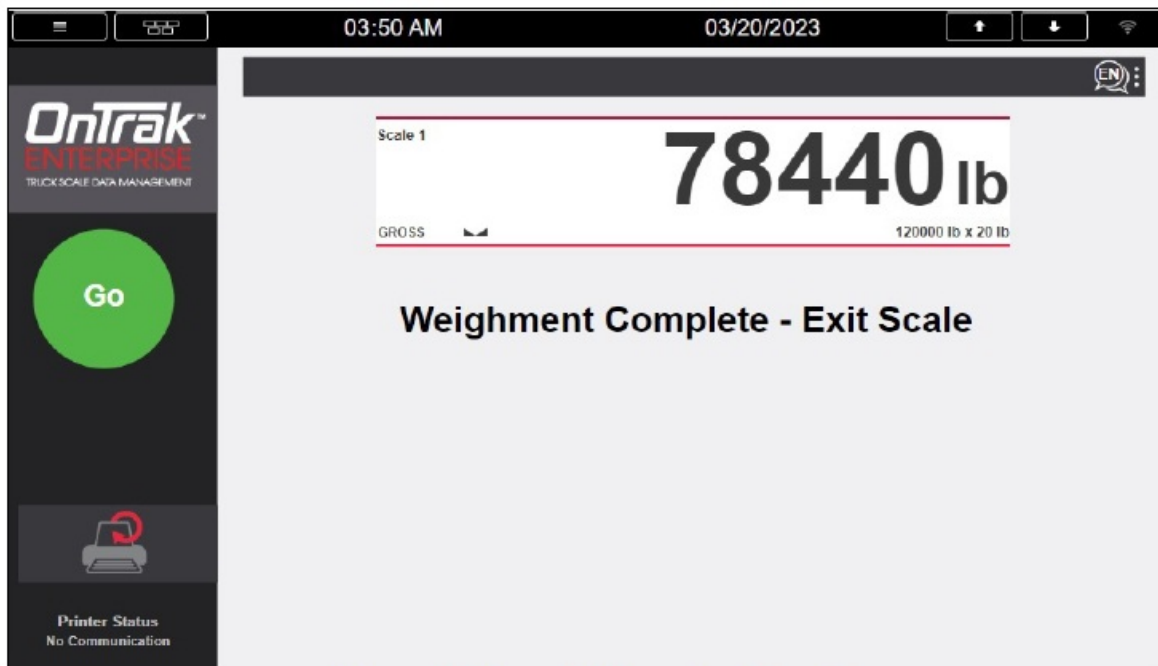


*Figure 2-8. Reprint Ticket Button*

**NOTE:** If connection between the kiosk and the Custom America printer is lost, the 1280 displays No Communication. If the printer reports an error, the 1280 may display No Communication, Out of Paper, Online, or Low Paper. These errors do not prevent completing a transaction. However, if the printer is offline or out of paper, the driver must request a reprinted ticket from the attendant.

The Reprint option is available if a ticket was printed at the kiosk until the truck exits the scale.

17. The 1280 displays Weighment Complete – Exit scale.



*Figure 2-9. Accept Information Prompt*

18. 1280 does one of the following based on the Loop Detector setting once the scale weight drops below Threshold.
- A. If loop detectors are disabled, wait until traffic light turns green then exit the scale.
  - B. If loop detectors are inverted or normal, Exit Loop Delay displays until the timer expires. Turns traffic light red. Return to Step 1.

## Setup Information

### Serial Communications – Tickets, PC

This application does not utilize tickets or reports. All ticket formats and report printing is handled by the OnTrak Enterprise PC excluding the Footer and Header when printing at the Kiosk.

### Header (AuxFmt1)

The message will be transmitted by default on port 2. The format can be modified through the 1280 front panel or with the Revolution scale software. This format includes special control characters before printing. For example, double high, double wide, font, etc.

### Footer (AuxFmt2)

The message will be transmitted by default on port 2. The format can be modified through the 1280 front panel or

with the Revolution scale software. This format includes special control characters after printing. For example, cut, release, etc.

**Rice Lake Stop/Go Green Light (AuxFmt19)**

The message will be transmitted by default on port 7. The format can be modified through the 1280 front panel or with the Revolution scale software.

**Rice Lake Stop/Go Red Light (AuxFmt20)**

The message will be transmitted by default on port 7. The format can be modified through the 1280 front panel or with the Revolution scale software.

**Application Configuration**

The Setup touch widget is password-protected and offers access to the following:

- Display Program Name and Version
- Display weight widget
- Streams Remote Display Command format (|<AA><CC>|<Data>! or CONDEC) out port 7 (Remote Display) for calibration and troubleshooting.

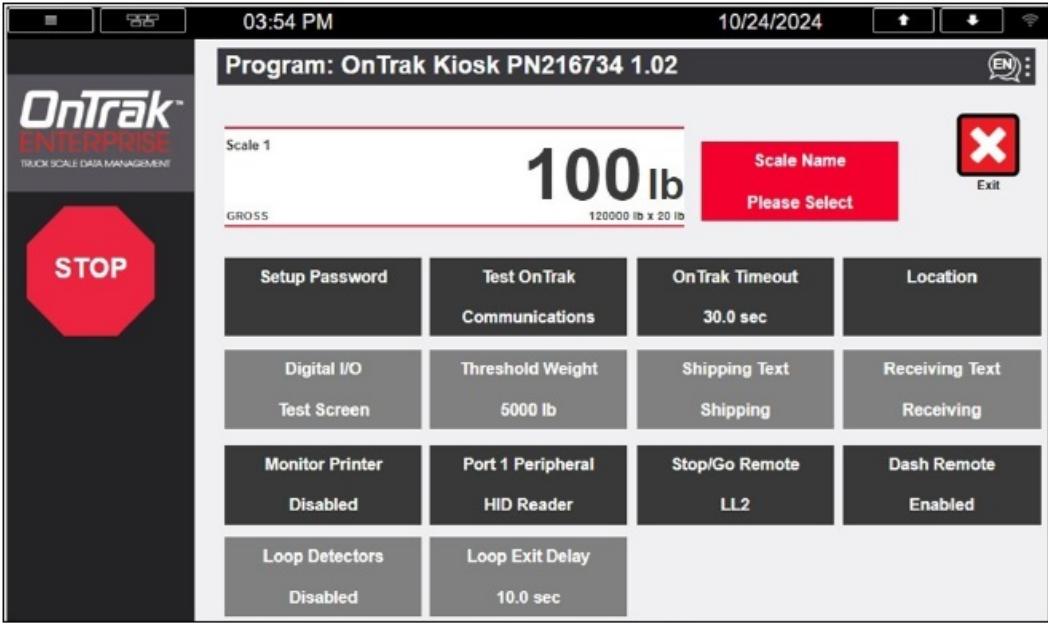


Figure 3-1. OnTrak Enterprise Kiosk Program



Parameter	Default	Touch Icon	Description
Scale Name	Please Select	Scale Name	Allows the operator to request all scale names from OnTrak Enterprise and select one from a list. This is a required before processing a truck.
System Password	""	Setup Password	Changes the password required for entry into the Setup Menu. Setting the password as nothing deactivates the prompt for a password when <b>Setup</b> is selected.
Test OnTrak Communications	—	Test OnTrak Communications	Tests communication with OnTrak Enterprise.
OnTrak Timeout	30 Seconds	OnTrak Timeout	Allows the operator to modify the duration the system waits for a response from OnTrak Enterprise.
Location	—	Location	Allows operator to modify the location of the transaction. This field is sent to OnTrak Enterprise.
Digital IO Testing	—	Digital IO Test Screen	Turns on/off outputs and views status of inputs.
Threshold Weight	5000 lb	Threshold Weight	Allows the operator to modify the minimum weight threshold to recognize a truck is on the scale.
Shipping Text	Shipping	Shipping Text	Allows the operator to modify the Shipping Button text.
Receiving Text	Receiving	Receiving Text	Allows the operator to modify the Receiving Button text.
Monitor Printer Status	Enabled <b>Disabled</b>	Monitor Printer	<p>Allows the operator to Enable or Disable printer monitoring.</p> <ul style="list-style-type: none"> <li>When the connection between the Kiosk and Printer is lost, the 1280 displays the message <b>Communication</b>.</li> <li>If the printer reports an error, the 1280 may display <b>Offline</b> or <b>Out of Paper</b>.</li> <li>Other messages may include <b>Online</b> or <b>Low Paper</b>.</li> </ul> <p><b>NOTE: These errors do not prevent a transaction from being completed. However, if the printer is offline or out of paper it is the driver's responsibility to see the attendant to receive or reprint a ticket.</b></p>

Table 3-1. OnTrak Kiosk Program Parameters Descriptions

Parameter	Default	Touch Icon	Description
Setup Serial Port 1	<b>HID Reader SmartPass Short SmartPass Long</b>	Port 1 Peripheral	Allows the operator to change the device connected to serial port 1. The Operator must manually change the baud rate in the 1280 configuration menu to match the baud rate settings of the connected device.
Stop/Go Remote Display	Disabled <b>LL2LL3</b>	Stop/Go Remote	Configures traffic light control between a LaserLight2 and LaserLight3. <ul style="list-style-type: none"> <li>LaserLight3 – Starts and stops internal streaming (Stream 1) only in Legacy Mode.</li> <li>LaserLight2 – Starts and stops internal streams using DM Commands (Learn Enabled = OFF))</li> </ul> <p><b>NOTE: Both remote displays use Auxfmt19 and Auxfmt20 for Traffic Lights.</b></p>
Dash Remote Display	<b>Enabled</b> Disabled	Dash Remote	Configures if remote display shows dashes (LaserLight2) or NODATA (LaserLight3) when weight is above Threshold.
Loop Detectors	Normal Inverted <b>Disabled</b>	Loop Detectors	Allows the operator to configure loop detector as Inverted, Normal or Disabled. Loop Detectors are only used for zeroing the scale upon entry.
Loop Exit Delay	10.0 sec	Loop Exit Delay	Allows the operator to modify the duration loop detectors are ignored when dropping below the Threshold.

Table 3-1. OnTrak Kiosk Program Parameters Descriptions

### Database Tables

All database information is maintained in the SQL Server Database on the OnTrak Enterprise PC except for Language translations.

Field	Type	Description
Nbr	Integer	Text string number
PriLan	String	Prompt in language (English by default)
SecLan	String	Prompt in language (Spanish by default)
TerLan	String	Prompt in language (French by default)

Table 3-2. LANGUAGE Database Table – 200 Records

### Hardware Specifications

NIT	1280 Screen Size/Type (12 in or 7 in)
1500	12 inches

Table 3-3. 1280 Screen Size/Type

Slot	Type
1	Single Channel A/D Card
2	Dual Channel Serial Card
3	Currently Unused
4	Currently Unused
5	Currently Unused
6	Currently Unused

Table 3-4. Option Card Locations

Slot	Bit	Type	Function
0	1	Output	Red Traffic Light
0	2	Output	Green Traffic Light
0	3	Programmability	Loop Detector 1 (Optional)
0	4	Programmability	Loop Detector 2 (Optional)
0	5	Output	Enable SmartPass (Optional)
0	6	Off	Currently Unused

Table 3-5. Digital I/O

Device	Port	Type	Type	Setup
Serial Ports	1	Programmability	RFID Reader / SmartPass Long Range / Smart Pass Short Range	9600 baud, 8 data bits, no parity, 1 stop bit
Serial Ports	2	Programmability	Custom America Kiosk Printer	19200 baud, 8 data bits, no parity, 1 stop bit
Serial Ports	7	CMD	Remote Display	9600 baud, 8 data bits, no parity, 1 stop bit
Serial Ports	8	CMD	Currently Not Used	9600 baud, 8 data bits, no parity, 1 stop bit
USB Device Port	3	CMD	Qwerty Keyboard (Optional)	–
USB A Port	–	CMD	Currently Not Used	–
USB A Port	–	CMD	Currently Not Used	–
Ethernet TCP/IP Port	10001	CMD	Currently Not Used	TCP Server
Ethernet TCP/IP Port	9171	CMD	Communication with OnTrak Enterprise	TCP Client 1
Ethernet TCP/IP Port	–	CMD	Currently Not Used	TCP Client 2
Ethernet TCP/IP Port	–	CMD	Currently Not Used	TCP Client 3
Ethernet TCP/IP Port	3000	CMD	Currently Not Used	Web Server
Ethernet TCP/IP Port	20001	CMD	Currently Not Used	Stream Server
SD card slot	–	CMD	8 GB microSD™ Card	Images

**Table 3-6. Device Ports**

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## Documents / Resources

	<p><a href="#">RICE LAKE 1280 Programmable Weight Indicator and Controller</a> [pdf] Instruction Manual  1280 Programmable Weight Indicator and Controller, 1280, Programmable Weight Indicator and Controller, Weight Indicator and Controller, Indicator and Controller, Controller</p>
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## References

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