

## RD-125 Operations Guide

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### Introduction

This RD-125 Remote Display provides weight readings on its LCD display. Connected to a host indicator via RS-232 serial communications, the RD-125 mirrors the weight displayed on the host indicator. The RD-125 is available in a carbon steel or Lexan enclosure. It has annunciators which identify pound or kilogram units of measure, gross or net weights, and data reception. It is compatible with any device that transmits data in the same format as the following Weigh-Tronix indicator models: WI-110, WI-120, WI-125, WI-130, WI-150 and WI-152.

Protocol must match host device's baud rate, parity and stop bits.

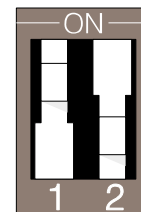


**Figure1**  
RD-125 Front Panel

# Configuration

## Sealing the Indicator

The RD-125 can be sealed. If sealed, no configuration items can be changed in the configuration menu. Seal the unit by placing switch S1-1 in the OFF position. Unseal the unit by placing S1-1 in the ON position. Remove the front panel of the indicator to gain access to switch S1-1. The switch is located near the bottom corner of the PC board behind the display and looks like the diagram at right.



## Entering Numbers with Arrow Keys

If at any time you enter an incorrect number, press **CLEAR** to delete the number, then re-key.

The arrow keys are used to enter numbers. Refer to this section when you need to enter a number or numbers.

### Example: To key in the number 125

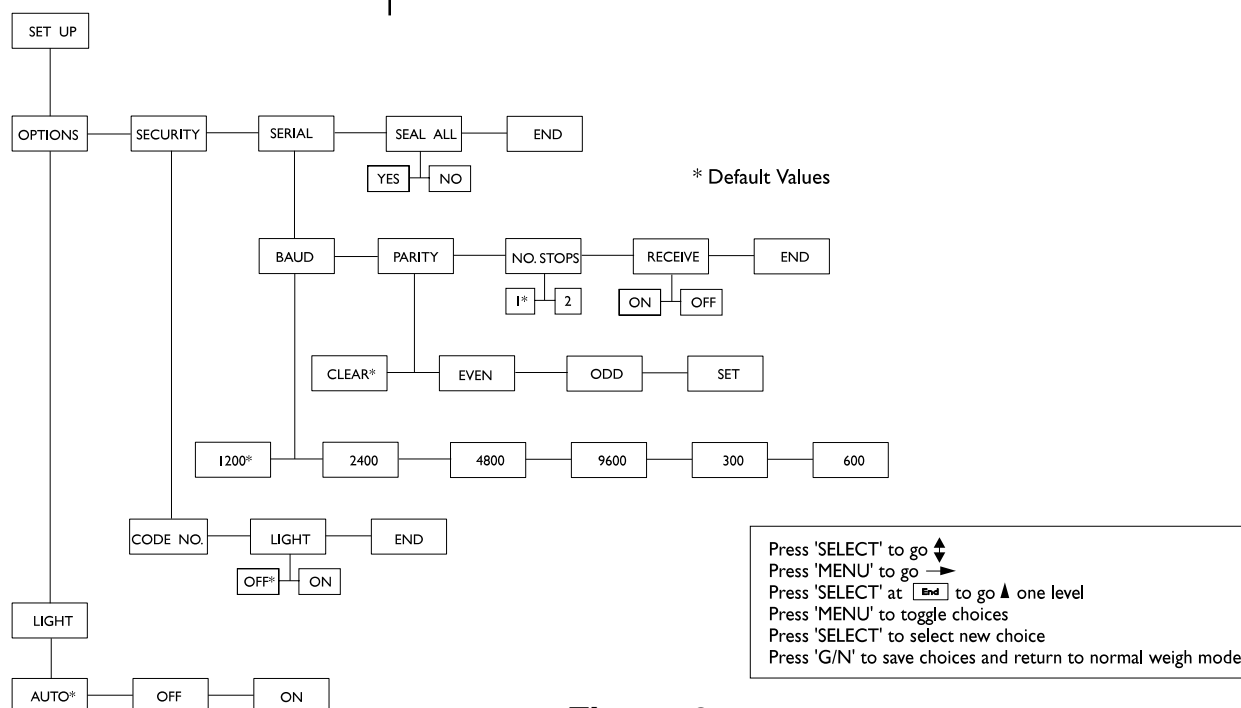
Press the ↑ key until the 1 appears on the display.  
Press the ← key once to move the 1 one space to the left.  
Press the ↑ key until 2 appears.  
Press the ← key once to move the 12 one space to the left.  
Press the ↑ key until 5 appears.  
(Continue with instructions or press **G/N** to return to normal weigh mode.)

## Configuration Menu

Figure 2 below illustrates the RD-125 configuration menu. You may view and set up parameters with this menu to suit your specific needs.

To enter the configuration menu:

1. Enter the access code "125" using the up and down scroll arrows (refer to the section *Entering Numbers with Arrow Keys* above).
2. Press and hold the **MENU** key until **SET UP** appears on the display. You may now view and change the parameters. Refer to Figure 2 below.



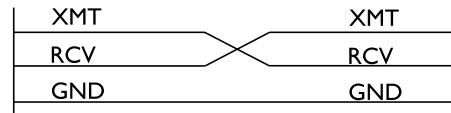
**Figure 2**  
Configuration Menu

# Programming

## Indicator Setup

The following instructions are for setting up different Weigh-Tronix indicators as host to the RD-125. Please refer to each indicator's manual for detailed information about programming the indicators.

To connect the host and RD-125, an interconnecting cable or null modem must be used. To create a null modem circuit, use a simple three conductor interface cable and match transmit (XMT) to receive (RCV), receive (RCV) to transmit (XMT), and ground (GND) to ground (GND). See Figure 3 below.



**Figure 3**  
Simple Null Modem

### WI-110

Indicator must be configured for continuous send:

On the A-1 Main PC Board, turn on S5 #4 (A-port) or #5 (B-port).

### WI-120

1. In the setup menu, set the "page length" to 1.
2. Set to print the displayed, gross, net, or tare weight on line 1.
3. Set "Acont" or "Bcont" to "Y" to use the continuous output mode for the "A" or "B" serial port.

### WI-125/WI-150/WI-152/ WI-825

1. In the Configuration Mode, go to LAYOUT.
2. Modify layout so that Layout item 1 is displayed, gross, net, or tare.
3. Modify layout so that Layout item 2 is an ASCII 13.
4. Delete any other layout items.
5. Set "broadcast" to ON if continuous output is desired.

## WI-130

*Make sure the serial ports on the WI-130 and RD-125 are set identically.*

**e.g.**

*9600, Clear, 1 Stop Bit → RD-125  
9600, None, 8 Data Bits → WI-130  
(Although these descriptions are different, their functions are identical.)*

```
SUB SYSTEM_STARTUP
dispmode=10
settimer(1,0.5)
y=curunit
curunit=0
first=len(str$(capacity))
if division<1 then second=len(str$(division))-2 else second=0
lb1=val(str$(first)+ "." +str$(second))
curunit=1
first=len(str$(round(capacity,1)))
if division<1 then second=len(str$(division))-2 else second=0
kg1=val(str$(first)+ "." +str$(second))
curunit=y
END SUB
```

```
SUB SYSTEM_TIMER
if curunit=0 then a=lb1
if curunit=1 then a=kg1
if actvalue=0 then
temp=gross
send$="G"
elseif actvalue=1 then
temp=net
send$="N"
elseif actvalue=2 then
temp=tare
send$="T"
else
temp=gross
send$="G"
end if
send$=send$+format$(temp,a)
fmtprint(1)
END SUB
```

**Print Format #1**

```
{send$} {curunit$}/n/r/S
```

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