1280 Checkweigher

Software User Guide

1280 Enterprise

Scale 1

1280 lb

GROSS

10000 x 1 lb

CHECKWEIGHER IS RUNNING
Aluminum Cans

UNDER | ACCEPT | OVER

START | STOP | Hold Rejects | Averages

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Scope

The 1280 Checkweigher application is included with the 1280 standard firmware and is loaded by importing the application from the Configuration menu "Import Files". This application is a static checkweigher with a stored low and high weight associated with an ID. A digital output will be activated based on under, accept or over, and stores the ID, weight, status (under, accept, over), and time/date in a database.
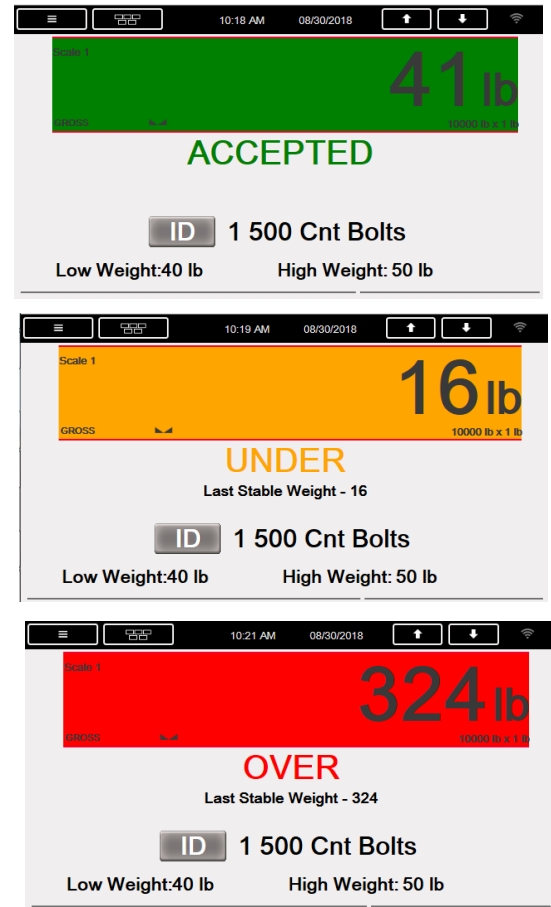
Sequence of Operation

The touch buttons on powerup and exit configuration are **Setup** and **ID**.

Select an ID

1. Operator presses the **ID** button.
2. System prompts - "Enter ID to Checkweigh".
3. Operator enters the ID and presses the **ENTER/DONE** key.
4. System does one of the following:
    a. **CW-90 WeighVault** Enabled
        i. System queries the CW-90 WeighVault over the Ethernet TCP/IP interface and performs one of the following:
            1. ID FOUND
                a. Sets the TARE and updates the display with the recalled ID information (ID, Description 1, Tare Weight, Under Weight and Over Weight). The operator can override the tare but it will not reflect in the tare display widget.
            2. ID NOT FOUND
                a. Displays – "ID NOT Found – Contact Office"
            3. ERROR RETREIVING INFORMATION
                a. Displays – "Error Retrieving Information"
            4. NO COMMUNCTION WITH WEIGHVAULT
                a. Displays – "Network Problems – Contact Office"
    b. **CW-90 WeighVault** Disabled
        i. System queries the PART database table and performs one of the following:
            1. ID FOUND
                a. Recalls the Name, Low and High values.
            2. ID NOT FOUND
                a. Displays – "ID NOT Found - Retry".
                b. Goes back to STEP 3.
5. Systems waits for the **Threshold Weight** to be triggered.

Checkweigh

1. When the weight exceeds the **Threshold Weight** the indicator verifies a ID is selected.
2. System captures the live net weight.
   a. Weight < **Low Weight**
      i. Displays "**UNDER**".
      ii. Turns on the **Under** output.
   b. Weight > **High Weight**
      i. Displays "**OVER**".
      ii. Turns on the **Over** output.
   c. Weight ≥ **Low Weight** and Weight ≤ **High Weight**
      i. Displays "**ACCEPTED**".
      ii. Turns on the **Accept** output.
   d. If weight is stable the weight is temporarily stored in a register and displayed on the screen.
3. STEP 2 is repeated until the operator presses the **PRINT** button or removes the item dropping below the **Threshold Weight**.
   a. **PRINT** key
      i. Captures stable net weight
      ii. Turns on corresponding output
      iii. Updates the display
      iv. **CW-90 WeighVault** Enabled
         1. Sends information to Weigh Vault. *The data is NOT stored to the local transaction database. System does not verify if the data was successfully sent to WeighVault.*
      v. **CW-90 WeighVault** Disabled
         1. A record will be stored to the database with the ID, the weight, the status (U, A, O) and time/date. *It is the operators responsibility to maintain the Transaction Database. The program does not delete if full.*
      vi. Prints a ticket.
      vii. When the weight goes under the **Threshold Weight** the display status will clear (but the ID, Low and High values will remain) and all digital outputs will turn off.
   b. Weight < **Threshold Weight** (Item Removed)
      i. The display will clear (but the ID, Low and High values will remain) and all digital outputs will turn off.
      ii. **CW-90 WeighVault** Enabled
         1. Sends information to Weigh Vault (ID, the last stored weight, the status (U, A, O) and time/date). *The data is NOT stored to the local transaction database. System does not verify if the data was successfully sent to WeighVault.*
      iii. **CW-90 WeighVault** Disabled
         1. A record will be stored to the database with the ID, the last stored weight, the status (U, A, O) and time/date. *It is the operator's responsibility to maintain the Transaction Database. The program does not delete if full.*
      iv. If the **Auto Print** feature is ON (default is ON), a ticket will print (see Serial Communications below)

Serial Communications – Tickets, PC

The program uses the Auxiliary Print Format #1 so that the dealer may modify the print format thru the 920i front panel or by using Revolution PC software.
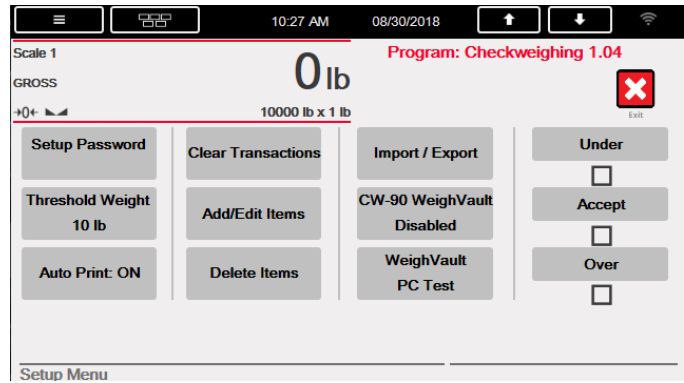
```
ID: 555
Gross:  0.25 lb
ACCEPTED

1/1/2015 01:00 PM
```

Application Setup & Configuration

The **Setup** button is password-protected and offers access to the following:

- Display Program Name & Version
- Display a weight widget

Parameter	Default	Button	Description
System Password	""	Setup Password	Changing the password that is required for entry into the Setup menu. Setting the password to nothing will cause the system to not prompt for a password when the **Setup** button is pressed.
Threshold Weight	10 lb	Threshold Weight	This is the weight that when exceeded the system checks that an ID is selected and if so it waits for standstill before reading the weight and categorizing it based on Low and High weight. This is the same weight that when the weight goes below it clears out the last weighment information and turns off the output.
Auto Print Feature	**On** / Off	Auto Print	Allows an operator to enable/disable the auto print feature.
Clear Transactions	-	Clear Transactions	Allows the operator to clear the transaction database with Yes/No option.
Add/Edit Items		Add/Edit Items	Allows an operator to add or edit stored IDs with associated Low and High weight values.
Delete Items		Delete Times	Allows an operator to delete stored IDs that are no longer used.
Import/Export	-	Import/Export	Used to export database to micro SD or USB driver.
Digital IO Testing	-	Under / Accept / Over	Ability to turn off and on digital outputs.
CW-90 WeighVault Option	Enabled/ **Disabled**	CW-90 WeighVault	Ability to enable and disable communication with CW-90 WeighVault.
Weigh Vault Communications Test	-	WeighVault PC Test	Test the communications with WeighVault.

Database Tables

Item Database 100 (Only used when WeighVault Disabled)

Field	Type	Description
ID	String	Item ID
Name	String	Item Name
Low	Real	Low weight that when below the weighment is marked UNDER
High	Real	High weight that when above the weighment is marked OVER

Transaction Database 10,000 (Only used when WeighVault Disabled)

Field	Type	Description
ItemID	String	Item ID
ItemName	String	Item Name
Weight	Real	Actual weight stored after standstill (Net Weigh)
Status	String	U, A or O based on weight vs Low and High stored weights
DT	DateTime	Time and date of transaction

Hardware Setup

Option Card Locations

Slot	Type
1	Single Channel A/D Card
2-6	Currently Not Used

Digital I/O

Slot	Bit	Type	Function
0	1	Output	UNDER
0	2	Output	ACCEPT
0	3	Output	OVER
0	4 -8	Off	Currently Not Used

Serial Port

Port	Type	Description	Setup
1	CMD	Serial Printer	9600,8,N,2
2	CMD	Currently Not Used	9600,8,N,2

Version Changes

Version	Changes	Date	Firmware
1.00	▪ Initial Release	3/1/2015	1.01
1.01	▪ Added WeighVault Option. ▪ Added Import/Export option. ▪ Added Setup Menu touch buttons. ▪ Added Clear Transactions option. ▪ Added ID button.	12/06/2016	1.04

1.02	▪ Fixed some setup menu variables to convert to the right type		1.05
1.03	▪ Removed softkey	04/11/2017	1.06
1.04	▪ Added ability to update display and output all the time when above threshold unless the PRINT key is pressed.	08/30/2017	1.09
Download: ☒ **SC** ☒ **NC** ☒ **TF** ☒ **SP** ☒ **W** ☒ **DB** ☒ **COD** **SC =** Standard Configuration **NC** = Network Configuration **TF =** Ticket Formats **SP =** Setpoints **W =** Widgets **DB =** Database Tables **COD =** Program			