

WC3-D Scale Indicator User Manual



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Manual # XXXXXXX-B

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Declaration of Conformity

CE

We, Intercomp Company 3839 County Road 116 Medina, Minnesota 55340 USA

Declare under sole responsibility that the RFX AG Scale Indicator to which this declaration relates meets the essential health and safety requirements and is in conformity with the relevant EC Directives listed below using the relevant section of the following standards and other normative documents.

2004/108/EC - relating to electromagnetic compatibility and replacing Directive 89/336/EEC

EN 55011:2009, Class B - Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement

EN61000-6-1:2007 - Generic standards, Residential, commercial and light industry environment

EN 61000-6-2:2005 - Immunity for industrial environments

EN 61000-6-3:2007 - Emission standard for residential, commercial and light-industrial environments **EN 62311:2008** - Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)

EN 45501:1992 AC: 1993 - Specification for metrological aspects of non-automatic weighing instruments **1999/5/EC** - on radio equipment and telecommunications terminal equipment

EN 301 489-1 V1.9.2 (2011-09) - Common Technical requirements

EN 300 328 V1.7.1 (2006-10) - Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN60950-1:2006/A12:2011 - Information technology equipment. Safety. General requirements **2012/19/EU** - on waste electrical and electronic equipment (WEEE) (Directive 20/96/EC Recast) **2013/56/EU** amending Directive 2006/66/EC on batteries and accumulators.

This product complies with all safety-relevant provisions referring to protection against electrical hazards and other hazards, such as mechanical hazards, fire hazards, noise and vibration. The safety issues of this measurement equipment have been evaluated under the self-certification provisions of the relevant directives.

The related technical construction files are held for inspection in the U.K. at Intercomp Europe Limited.

The CE mark and WEEE marks must be affixed as required in the directives.

Mar Browne

Mark Browne / Quality Manager June 24, 2014

Notifications

Safety Summary

The following general safety precautions must be observed during all phases of operation, service and repair of this scale. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture and intended use of the scale. Intercomp assumes no liability for the customer's failure to comply with these requirements.

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***DO NOT SUBSTITUTE PARTS OR MODIFY SCALE***
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Due to the danger of introducing hazards and performance issues, do not substitute parts or perform any unauthorized modifications of the scale.

Notice

All rights reserved. The information contained in this publication is derived in part from proprietary and patent data of the Intercomp Corporation. This information has been prepared for the express purpose of assisting operating and maintenance personnel in the efficient use of the instrument described herein. Publication of this information does not convey any rights to use or reproduce it or to use it for any purpose other than in connection with the installation, operation and maintenance of the equipment described herein. While every precaution has been taken in the preparation of this manual, Intercomp Corporation assumes no responsibility for damages resulting from the use of the information contained herein. All instructions and diagrams have been checked for accuracy and ease of application; however, success and safety in working with tools depend largely upon the individual accuracy, skill and caution. For this reason Intercomp Company is not able to guarantee the result of any procedure contained herein. Nor can they assume responsibility for any damage to property or injury to persons occasioned from the procedures. Persons engaging the procedures do so entirely at their own risk.

Warranty

INTERCOMP CORPORATION (hereafter called "the company") warrants the products which this document accompanies to be free of defects in materials and workmanship and to operate according to design specifications for a period of one (1) year after receipt by the original purchaser. After authorized return to the company at the purchaser's expense, the company shall evaluate any returned equipment under warranty claim and shall make such repairs or replacements as may be judged necessary, in as expeditious a manner as possible. IN THE EVENT that the company determines the claim to be made as a result of improper use, abuse, modification, shipping damage or other factors beyond the reasonable control of the company, the company will advise the purchaser of the estimated repair costs. The company makes no warranty other than that contained in this statement. No agent other than an executive officer of Intercomp Corporation is empowered to modify in any manner this statement of warranty.

Introduction

This manual contains specifications, operating instructions and calibration procedures for the Intercomp J&M RFX Ag Scale Indicator.

Specifications

Controls

General	On/Off, Zero, Hold, TARE, Menu/Setup, Bin, Gross/Net, Arrow Keys, TALC Lights, Conveyor, Shift, Door 1 & 2, Engine Start/Stop, Roll Tarp Open/Close, Front/Rear Bin
Display	6 digit, LCD (1.0")

Electrical

Voltage	4-15 VDC or 120/240 VAC with power supply
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Environmental

Humidity	10 to 95% non-condensing
Temperature	Storage: -40° C to +75° C. / -40° F to +170° F
	Operating -10° C to +50° C. / +14° F to +122° F

Radio

Radio Frequency	ISM 2.4GHz, 802.15.4*
License Requirements	None. Pre-approved US/FCC, CAN/IC, EUR/CE
Range	200ft. / 60m indoor, 300ft. / 90m line of sight

 Radio Notes: Frequency: ISM 2.4GHz (2.400GHz - 2.483GHz), with 12 channels (CH 1-12) within that range with each center frequency = 2405MHz + (CH * 5) MHz Power output 63mW (18dBm), 10mW (10dBm) for international variant. Antenna is internal surface mount with –1.5dbi gain, omni-directional.



WARNING: To satisfy FCC RF exposure requirements for mobile transmitting devices, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended. The antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter.

Front Panel Controls



Key Functions

Scale Controls

KEY	FUNCTION			
ON/OFF	Press the On/Off key to cycle power on and off.			
ZERO	Press and hold the ZERO key to zero the scale when there is no load.			
HOLD	The HOLD feature is disabled by default. To enable the HOLD function, enter the MODE MENU and change "Hold.E" from "no" to "yes". Press HOLD to lock the current weight. When using the HOLD feature, the display will alternate between showing "HOLD" and the locked weight. Do not add or remove any weight while in HOLD mode, as the weight difference will not be recorded. Press HOLD again to return to normal weighing mode.			
TARE	Press The TARE key to set the displayed weight as the TARE weight. Press TARE and ZERO keys simultaneously to clear a saved TARE weight and return to GROSS weight.			

KEY	FUNCTION			
MENU/SETUP	Press the Menu/Setup key to access the menus. Refer to MODE Menu and Calibration Menu sections for additional information.			
	The "BIN" mode function may be used to set a preset "BIN" weight for up to ten (10)-individual bins or seed boxes. When operating in the BIN mode, only the selected BIN and TOTAL GROSS weight values will change. The other BIN weight values do not change. For first time use, input the number of bins using the "Number of Bins" function in the MODE Menu.			
BIN	Press BIN to toggle through BIN numbers 1-x. The display will show the BIN number or the GROSS (or NET) weight: "bin01", "bin02","Gross". The indicator will also show the current BIN number when powered on.			
	Press and hold the BIN key to enter a bin weight for the selected BIN number. Enter the weight value for the BIN number and press STORE/ENTER.			
	NOTE: The ZERO key will not function when in BIN weight viewing mode.			
GROSS/NET	Press key to toggle between Gross and Net weight. The selection will be displayed on the indicator screen.			
ARROW KEYS	Use the Arrow keys to edit entry fields. Press MENU/SETUP to save entry.			
M+, RM and PRINT/EXPORT	Reserved for future use.			

Position Controls

KEY	FUNCTION			
TALC	The TALC key controls the operation and speed of the TALC dispense Press key to toggle TALC on and off. TALC has 10 speed settings. Hold SHIFT and Press TALC to cycle through speeds See table below for TALC dispense rates.			
FRONT	Press the FRONT key to move the conveyor towards the front.			
REAR	Press the REAR key to move the conveyor towards the rear.			
CONV	The CONV key controls the operation and speed of the convey system. Press key to toggle conveyor OFF and ON (Last Set Speed). CONV has 4 speed settings: OFF, HIGH, MED and LOW. Hold SHIFT and Press CONV to cycle through speeds			
LIGHTS	Press LIGHTS key to turn the optional work lights on and off.			
UP	Press the UP key to raise the conveyor.			
DOWN	Press the DOWN key to lower the conveyor.			
SHIFT	Hold SHIFT to perform the selected buttons alternate function.			

KEY	FUNCTION		
DOOR 1 UP	Press the DOOR 1 UP key to open door number 1.		
DOOR 1 DN	Press the DOOR1 DOWN key to close door number 1.		
DOOR 2 UP	Press the DOOR 2 UP key to open door number 2.		
DOOR 2 DN	Press DOOR 2 DOWN key to close door number 2.		

Engine Controls

KEY	FUNCTION		
START	Press the START button to turn-on the gas engine.		
STOP	Press the STOP button to turn-off the gas engine.		

Roll Tarp Controls

KEY	FUNCTION		
OPEN	Press OPEN to roll up tarp to uncover load		
CLOSE	Press CLOSE to roll down tarp to cover load.		

Menu

MODE Menu

Press MENU/SETUP to advance through the menu to the desired function. Some functions have settings that require a number to be entered. Other functions have preset settings to select from. Use the arrow keys adjacent to the MENU/SETUP button to edit the Menu fields. When the desired setting is displayed, press MENU/SETUP to save and advance. The setting is saved and the indicator can be powered off if no other settings require editing.

Step	Function	Note	Default
ñodE	Mode Menu Code	0 = no skip.	000
ь "5	Number of Bins	0-10	50
ь m.FL	Bin Follow	Yes or No	9ES
ь.L ،EE	Back Light	On, Off or Auto	AULo
Un its	Units	lb or kg	lb
A.rt	Average Rate	1 to 120	51 O
A off	Auto Off	000 = off, 1 to 240 minutes	240
Hold.E	Hold Enable	Yes or No	no
CHD. Ł	Choke Time	0-10	0

Press the MENU/SETUP key. The display will show "TodE".

- 1. Press the MENU/SETUP key. The display will show "DDD". Press MENU/SETUP to continue through the rest of the MODE menu.
- The display will show "b n5".Press MENU/SETUP. The display will show "00". Use the numeric keypad to enter the required number of bins or seed boxes. Press MENU/SETUP to save and advance.
- 3. The display will show "b .n.FL". Press MENU/SETUP. Press any arrow key to toggle between "JE5" and "oo". When set to "Yes", the BIN number (1 or 2) will change to match the door number (1 or 2) whenever that door number is opened.
- 4. The display will show "**b.L** *i***E**". Press the MENU/SETUP key. Press any arrow key to toggle through the back light choices. When the desired selection is shown on the display, press MENU/SETUP to save and advance.
- 5. The display will show "Un it5". Press the MENU/SETUP key and the current weight unit of measure will be flashing in the upper left corner of the display. Press any arrow key to toggle between "Ib" and "kg". When the desired unit of measure is flashing, press MENU/SETUP to save and advance.

- 6. The display will show "*A. rL*". Press the MENU/SETUP key. Use the numeric keypad to enter the number for the system average rate. The average rate reflects the number of readings to be averaged together. Higher values will result in a more stable reading, but will take longer to settle to the final value. For example, the scale updates at 4Hz, so an Average Rate of "8" equates to 2 seconds of averaging. Enter "1" to disable averaging. When the desired number is displayed press MENU/SETUP to save and advance.
- 7. The display will show "A oFF". Press the MENU/SETUP key. Use the numeric keypad to enter the required number for the system automatic turnoff. The number displayed reflects the minutes the scale can remain idle before it automatically shuts down. Press any key to reset the countdown. If the scale is used in conjunction with a host indicator (wired or wireless), an active link with the indicator will prevent the scale from turning off. Setting the auto-off number to "DDD" will disable the function, preventing the scale from shutting itself off. Use the numeric keypad to enter the required number and press MENU/SETUP to save and advance.
- 8. The display will show "HoLd.E". Press the MENU/SETUP key. Press any arrow key to toggle between "JE5" and "no". Refer to the "HOLD" key function description set forth in the front panel control section for additional information. When the desired option is shown on the display, press MENU/SETUP to save and advance.
- 9. The display will show "*CHD. L*".Press MENU/SETUP. The "CHOKE TIME" function sets the time that the CHOKE output will remain active after the START key is released. Use the arrow keys to increase or decrease the value. When the required number is selected, press MENU/SETUP to save and advance
- 10. The system will return to normal operation.

Calibration Menu

To initiate calibration, press the MENU/SETUP button. The display will show "roodE". Enter "477" to skip to the Calibration menu. Press MENU/SETUP to advance through the Calibration menu to the desired function. Some functions have settings that require a number to be entered. Other functions have preset options to select from. Use the arrow keys adjacent to the MENU/SETUP button to edit the fields. When the desired value is shown, press MENU/SETUP to save and advance. The setting is now saved and the indicator can be turned off if no other settings need editing.

Step	Function	Note	Default
iiodE	Mode Menu Code	Enter 477 to go to Calibration Menu	477
SEEP	Calibration Menu Step Code	Enter "000"	000
Conu. I	Conveyor Speed #1	0-255 (0=0%, 255=100%)	120
Conu.2	Conveyor Speed #2	0-255 (0=0%, 255=100%)	140
.ī. m.£5	Minimum Talc Speed	0-100%	20
TAH.ES	Maximum Talc Speed	0-100%	80
FULC'H	Talc Hz (PWM)	100Hz or 5000Hz	100H
SEArE	Start Always (no voltage check)	Yes or No	9E5
rAd 10	Radio Enable	Yes or No	9E5
rF [H	Radio Channel	01 to 12	10
rF.PAn	Radio PAN ID	0 to 65534	
rF.dEF	Restore Radio Defaults	0 or 3	0
ASF	AZT (auto zero tracking)	1 d, 3 d, .5 d, oFF or .6 d	1 d
GrAd	Graduation Size	1, 2, 5, 10, 20, 50 or 100	с Р

- 1. Press the MENU/SETUP key. If the display shows "hode", enter "477" to switch to the Calibration menu.
- 2. The display will show "5EEP".
- 3. Press the MENU/SETUP key. Use the numeric keypad to enter the desired number to skip to a different menu or press the MENU/SETUP key to continue through the rest of the Calibration menu.
- 4. The display will show "Lunu. I". Press MENU/SETUP. The display will show "DDD". Use the numeric keypad to enter the PWM duty cycle for Conveyor Speed #1 0-255 (0=0%, 255=100%). Press MENU/SETUP to save and advance.
- 5. The display will show "Lonu.2". Press MENU/SETUP. The display will show "DDD". Use the numeric keypad to enter the PWM duty cycle for Conveyor Speed #2 0-255 (0=0%, 255=100%). Press MENU/SETUP to save and advance.

- 7. The display will show "TAH.L5". Press MENU/SETUP. The display will show "DDD". Use the numeric keypad to enter the maximum PWM duty cycle for talc speed 0-100 (0% 100%). Press MENU/SETUP to save and advance.
- 8. The display will show "EALE.H". Press MENU/SETUP. The display will show the TALC Hz (PWM) selection of 100Hz or 5000Hz. Press any arrow key to edit this setting.
- 10. The display will show "5LArL". Press MENU/SETUP. Press any arrow key to toggle between "4E5" (requires voltage check prior to starting) and "or" (no voltage check required prior to starting). When the desired setting is shown on the display, press MENU/SETUP.
- 11. The display will show "ר fld اله". Press the MENU/SETUP key. Press any arrow key to toggle between "JE5" (radio enabled) and "חם" (radio disabled). When the desired selection is shown on the display, press the MENU/SETUP key.
- 12. The display will show "*rF EH*". Press the MENU/SETUP key. Use the numeric keypad to enter the desired radio channel and press MENU/SETUP to save and advance.
- 13. The display will show "*rF.PAn*". Press the MENU/SETUP key. Use the numeric keypad to enter the desired Personal Area Network ID setting (0-65534) and press MENU/SETUP to save and advance.
- 14. The display will show "*rF.dEF*". Press the MENU/SETUP key. Use the numeric keypad to enter "0" or "3". The default setting is "0". Setting the number to 3 will restore the default radio settings. Use the numeric keypad to enter the desired number and press MENU/SETUP to advance.
- 15. The display will show "A2L". Press the MENU/SETUP key. Press any arrow key to toggle through the auto zero tracking choices (1 d, 3 d, .5 d, oFF or .6 d). If the displayed weight is less than the number of grads shown for a given amount of time, the weight will be automatically zeroed off. When the desired choice is shown on the display, press MENU/SETUP to advance.
- 16. The display will show "Gr Ad". Press any arrow key to toggle through the graduation size choices (1, 2, 5,10, 20, 50 or 100). When the desired number is shown on the display, press MENU/SETUP to advance.
- 17." $5R_{U}E$ " is displayed and the display will then return to normal operation.

Calibration

The accuracy of the RFX Ag Scale Indicator is maintained through four separate calibration procedures as outlined below:

- Code Calibration with mV/V: Calibrate the system by entering the load point (lb or kg) per load cell, signal (mV/V) and number of load cells. The mV/V Calibration can also be adjusted by following the instructions set forth in the "mV/V Calibration" section.
- Field Calibration Weight Entry Adjustment: The Field Calibration Weight Entry adjustment is used when the scale is working but the weights are off. Adjust the displayed weight by entering the Displayed Weight and a Certified Weight. An internal factor will be automatically calculated and applied to all displayed weights going forward.
- 3. Field Calibration Factor Adjustment: View or edit the Field Cal Factor directly.
- 4. Weight Calibration: The Weight Calibration method should be used only if the calibration has been lost. To initiate a Weight Calibration, apply known weight(s) and enter the value of the weights into the indicator. The scale must be unloaded at the start of the operation, with a known weight ready to be loaded. NOTE: When a Weight Calibration is performed, the Field Calibration Adjustment is automatically reset to the default setting of 1.0000.

mV/V Calibration

The mV/V calibration is accomplished at the factory. A certified load cell simulator is required to perform the calibration. When performing the mV/V Calibration on a system with multiple cell channel inputs, adjust only the simulator on the CH1 input, leaving the other inputs stable. Alternatively, prior to starting the calibration, set the number of cell inputs to "1" and return to the total number of cells when calibration is completed.

ñodE	Mode Menu Code	Enter 477 to go to Calibration Menu	477
SEEP	Calibration Menu Step Code	Enter 20 for mV/V Calibration	020
55-00	Simulator set to 0.0 mV/V		
55-01	Simulator set to x.x mV/V	Enter simulator setting	2.0000
	SAJE	Displays for 1 sec and returns to normal display	

- 1. Press MENU/SETUP to access the Menu. When "roddE" is displayed, enter "477" to enter the Calibration menu.
- 2. Press MENU/SETUP. After "**5***L***EP**" is displayed, enter "20" for mV/V Calibration.
- 3. Display shows "55-00". Set the simulator to 0mV/V and press MENU/SETUP.
- 4. Display shows "55-0 I". Set the simulator to the desired value. Enter the value and press MENU/SETUP.
- 5. The display will show " $5A_{\mu}E$ " and then return to normal operation.

Code Calibration

ñodE	Mode Menu Code	Enter 477 to go to Calibration Menu	477
SEEP	Calibration Menu Step Code	Enter 21 for Code Calibration	02 I
CC-01	Load Point (lb or kg)	1 to 999999	40000
50-33	Signal (mV/V)	0.1000 to 99.9999	0.4500
CC-03	Number of Load Cells	1-99	1
	SAJE	Displays for 1 sec and returns to normal screen	

- 1. Press MENU/SETUP to enter the menu. When "node" is displayed, enter "477" to enter the calibration menu.
- 2. Press MENU/SETUP. After "**5***L***EP**" enter "21" for Code Calibration.
- 3. Display shows "[[-00]". Enter the load each load cell is rated for at a specific mV/V output. The load or cell capacity may be listed on the load cell label or data sheet. Press MENU/SETUP to advance.
- 4. Display shows "*LC-D2*". Enter the mV/V output corresponding to the load entered in step 3. The mV/V value may be listed on the load cell label or data sheet. Press MENU/SETUP to advance.
- 5. Display shows "[[-0]]". Enter the number of load cells in the system. Press MENU/SETUP to advance.
- 6. The display will show " $5R_{\mu}E$ " and then return to normal operation.

Field Calibration Weight Entry Adjustment

Adjust the displayed weight by entering the Displayed Weight and a Certified Weight. An internal factor will automatically be calculated and applied to all displayed weights going forward. NOTE: Performing a field calibration adjustment should only be done if a certified or trusted weight is available to compare the displayed gross weight against. The indicator should display the gross weight prior to starting the Field Calibration Weight Entry Adjustment.

iiodE	Mode Menu Code	Enter 477 to go to Calibration Menu	477
SEEP	Calibration Menu Step Code	Enter 31 for Field Calibration Weight Entry Adjustment	03 I
d iSP.Ld	Displayed Load (weight)	1-999999	
[Ert.Ld	Certified Load (weight)	1-999999	

- 1. Press MENU/SETUP to enter the menu. When "nodE" is displayed, enter "477" to access the Calibration menu.
- 2. Press MENU/SETUP. When "**5***L***EP**" is displayed, enter "31" for Field Calibration Weight Entry Adjustment.

- 3. Display will show "d iSP.Ld". Press MENU/SETUP and then enter the current displayed gross weight. If there is a load currently on the scale, the weight will be automatically populated into the display. However, the weight can be edited. Press MENU/SETUP to enter the value.
- 4. Display will show "*LErLLd*". Press MENU/SETUP and then enter the certified or trusted gross weight. Press MENU/SETUP to save the value. An internal Field Cal Factor will be calculated and applied to all displayed weights going forward.

Field Calibration Factor Adjustment

View or edit the Field Cal Factor directly.

iiodE	Mode Menu Code	Enter 477 to go to Calibration Menu	477
SEEP	Calibration Menu Step Code	Enter 30 for Field Calibration Adjustment	030
FLd.Ad	Field Cal Adj Value	0.1000 to 9.9999	1.0000

- 1. Press MENU/SETUP to enter the menu. When "hode" is displayed, enter "477" to access the Calibration menu.
- 2. Press MENU/SETUP. When "**5***L***EP**"is displayed, enter "30" for Field Calibration Adjustment.
- 3. Display will show "FLd.Ad". Press MENU/SETUP to view the current Field Cal Adjustment value.
- 4. Calculate and enter the new Field Cal Adjustment value. Press MENU/SETUP to save. The new factor will be applied to all displayed weights going forward.

Example: To increase the weights by 1%, increase the factor by 1%. If the factor is set at the default setting of 1.0000, change it to 1.0100 to increase weights by 1%.

The default Field Cal Factor setting is 1.0000. The Field Cal Factor is also reset to 1.0000 when performing a new Code or Weight calibration.

Weight Calibration

The scale must be unloaded at the start of the calibration, with a known weight ready to be loaded.

;;;; **WARNING** ;;;;

When performing the weight calibration, the previous calibration settings will be overwritten.

ñodE	Mode Menu Code	Enter 477 to go to Calibration Menu	477
SEEP	Calibration Menu Step Code	Enter 1 to advance to Weight Calibration	00 1
CAP	Capacity	Enter scale capacity	199999
LL-00	No Weight Applied		
HH- D I	First Weight	Enter first weight	
LL-01	First Weight	Load first weight	
	Up to 3 cal points available to enter	Turn indicator off to stop adding cal points.	

- 1. Press MENU/SETUP to advance through the menu. When "roodE" is displayed, enter "477" to access the calibration menu.
- 2. Press MENU/SETUP. When "5LEP" is displayed, enter "1" for Weight Calibration.
- 3. Display shows "*LAP*". Press MENU/SETUP and enter the scale capacity. After entering the scale capacity, the entry is saved and the unit can be turned off before starting the weight calibration.
- 4. Display shows "LL-00". With no weight on the scale press MENU/SETUP.
- 5. Display shows "HH- II I". Press MENU/SETUP.
- 6. Enter the first calibration weight to be applied and press MENU/SETUP.
- 7. Display shows "LL-0 I". When the first load is applied to the scale and has stabilized, press MENU/SETUP.
- 8. Display shows "HH- D2". The scale can be turned off to lock in a 1-point calibration, or repeat steps #5-7 for up to 3 calibration points.

Calibration "Step" Codes

	Enter Cal Mode # After "5ŁEP" in Cal Menu
Cal Mode #	Diagnostic Use Only – contact Intercomp Service before proceeding
	(Enter "477" after الموتَّر E is displayed to access 5EEP Menu)
000	Advance through normal calibration menu.
001	Weight calibration (apply weight(s) to calibrate)
003	Set number of load cell inputs, followed by corner calibration.
005	Enter Mode menu. (Mode Menu is same menu that is entered if the cal strap is in the Run position)
020	mV/V calibration (calibrate mV/V input using a certified LC simulator)
021	Code calibration (set system calibration by entering cell load and mV/V info)
030	Field Calibration Adjustment.
031	Field Calibration Weight Entry Adjustment.
111	Individual cell read diagnostic. Enter specific load cell number 1-8.
121	Raw Counts display diagnostic. 0mV/V = 131072. 8375 per mV/V.
122	Raw mV/V display. Output based on mV/V calibration.
131	Constant power to all load cells diagnostic.
201-208	Corner adjust cell 1-8. (Example: 202 will access mode to adjust cell span #2).
221	Cell Span Entry (manually enter cell spans for cells 1-8)
311	Default and save all radio settings to the radio.
711	Default and save all settings (Leave calibration and cornering untouched)
811	Default and save corner compensation to nominal values.
911	Default and save all board memory (settings, calibration and corners)

NOTE: Quick Access Radio Programming

* The Indicator and Remote Handheld each have a Quick Access radio programming feature. To access the Quick Access Radio Program feature, ensure with the indicator is turned off. Press and hold the POWER button for 6 seconds. The screen will display an entry for the PAN ID. Enter the PAN ID. The radio will be programmed to the setting entered.

Troubleshooting

Error Messages

The following error messages are displayed in order of priority.

Message	Definition						
EEPE	EEPROM FAILURE Calibration Information Lost or Corrupted						
Calibration info	ormation is held in a special permanent memory area. A checksum code is						
generated and	generated and written to the memory during the calibration process. Each time power is turned						
on, the code is	on, the code is regenerated and compared to the stored value. If a change is detected, the error						
message is dis	splayed. Recalibration may clear the error display. If the problem persists the						
control panel w	ill need to be replaced.						
Ad I	A/D Converter Failure						
The A/D circuit	board has indicated a fault and needs to be repaired or replaced.						
LEB I	Power-up Self-Test has Detected a Load Cell Error						
The load cell m	ay have failed or there is a bad connection. In this example cell #1 has failed.						
LE I	Run-time Checking has Detected a Load Cell Error						
The load cell m	ay have failed or there is a bad connection. In this example cell #1 has failed.						
Lo.6AL	Low Battery (supply) Voltage						
The message in	ndicates that the indicator has measured the supply voltage and found it to be too						
low. Check the	power supply voltage and wiring.						
CAP	Overload or Calibration Information Lost or Bad Load Cell						
The control pai	nel has detected a weight reading that is larger than expected. The reading may						
be caused by	the application or too much weight on the platform. If the message is observed						
when there is	no weight on the platform, then the most likely cause is a defective load cell or						
defective control	defective control panel.						
d iSP	Number Cannot be Displayed						
The most comr	non cause of the error is pressing the zero key with a full load on the scale. When						
the load is rem	oved, the full number with a minus sign will not fit on the display. Press the ZERO						
key to clear the	error.						

Indicator Pin Connections

	CH 4 CH 3		CH 4		CH 3 CH 2 CH 1		4 CH 3		CH 2		На	Engine arness Cable	14	4-Conductor Cable
Α	-SIG	Α	-SIG	A	-SIG	A	-SIG	A	GND	Α	TALC			
В	+EXC	В	+EXC	В	+EXC	В	+EXC	В	START	В	NC			
С	+SIG	С	+SIG	С	+SIG	С	+SIG	С	STOP	С	Position FRONT			
D	-EXC	D	-EXC	D	-EXC	D	-EXC	D	STOP	D	Position REAR			
E	-SHIELD	E	-SHIELD	E	-SHIELD	E	-SHIELD	E	CHOKE	E	Position UP			
								F	ROLL TARP OPEN	F	Position DOWN			
								G	ROLL TARP CLOSE	G	Door 2 Up			
										н	Door 1 Down			
										J	+12V Supply			
										K	Door 1 Up			
										L	Door 2 Down			
										M	LIGHTS			
										N	CONV			
										P	GND Supply			

How to Contact Intercomp Service

Please provide the following information when requesting service for RFX AG Scale Indicator:

- 1. Item Description and Part Number (if available)
- 2. Serial Number(s) of Item (if available)
- 3. When was item purchased (mm/yyyy)?
- 4. Where was item purchased (company/location)?

For Intercomp Service call or fax:

(763)-476-2531 1-800-328-3336 FAX (763)-476-2613

Or complete the Service Support request form at: http://www.intercompcompany.com/service-contact.html

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J&M Handheld Remote User Manual

JM0041056



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Manual # XXXXXXXA

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Declaration of Conformity

CE

We, Intercomp Company 3839 County Road 116 Medina, Minnesota 55340 USA

Declare under sole responsibility that the J&M Handheld Remote to which this declaration relates meets the essential health and safety requirements and is in conformity with the relevant EC Directives listed below using the relevant section of the following standards and other normative documents.

2006/42/EC - on machinery and amending Directive 95/16/EC (recast)
2012/19/EU - on waste electrical and electronic equipment (WEEE) (Directive 20/96/EC Recast)
2013/56/EU amending Directive 2006/66/EC on batteries and accumulators
2014/30/EU - Electromagnetic Compatibility (EMC) Directive
2014/53/EU - Radio Equipment Directive (RED)
EN 300 328 V2.1.1 (2016-11) - Electromagnetic compatibility and Radio spectrum Matters (ERM)
EN 301 489-1 V2.2.0 (2017-03) - Electro-Magnetic Compatibility (EMC)
EN 55011:2016 - Industrial, scientific and medical equipment; Radio-frequency disturbance characteristics
EN 60950-1:2006+A2:2013 - Information technology equipment, Safety, General requirements
EN 61000-6-1:2007 - Generic standards, Residential, commercial and light industry environment
EN 61000-6-3:2007 - Emission standard for residential, commercial and light-industrial environments
EN 62311:2008 - Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)

This product complies with all safety-relevant provision referring to protection against electrical hazards and other hazards, such as mechanical hazards, fire hazards, noise and vibration. The safety issues of this measurement equipment have been evaluated under the self-certification provisions of the relevant directives.

The related technical construction files are held for inspection in the U.K. at Intercomp Europe Limited.

The CE mark and WEEE marks must be affixed as required in the directives.

Mark Browne

Mark Browne / Quality Manager January 30, 2018

Notifications

Safety Summary

The following general safety precautions must be observed during all phases of operation, service and repair of this scale. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture and intended use of the scale. Intercomp assumes no liability for the customer's failure to comply with these requirements.

***WARNING; ; ; DO NOT SUBSTITUTE PARTS OR MODIFY SCALE

Due to the danger of introducing hazards or performance issues, do not substitute parts or perform any unauthorized modifications of the scale.

Notice

All rights reserved. The information contained in this publication is derived in part from proprietary and patent data of the Intercomp Corporation. This information has been prepared for the express purpose of assisting operating and maintenance personnel in the efficient use of the instrument described herein. Publication of this information does not convey any rights to use or reproduce it or to use it for any purpose other than in connection with the installation, operation and maintenance of the equipment described herein. While every precaution has been taken in the preparation of this manual, Intercomp Corporation assumes no responsibility for damages resulting from the use of the information contained herein. All instructions and diagrams have been checked for accuracy and ease of application; however, success and safety in working with tools depend largely upon the individual accuracy, skill and caution. For this reason Intercomp Company is not able to guarantee the result of any procedure contained herein. Nor can they assume responsibility for any damage to property or injury to persons occasioned from the procedures. Persons engaging the procedures do so entirely at their own risk.

Warranty

INTERCOMP CORPORATION (hereafter called "the company") warrants the products which this document accompanies to be free of defects in materials and workmanship and to operate according to design specifications for a period of one (1) year after receipt by the original purchaser. After authorized return to the company at the purchaser's expense, the company shall evaluate any equipment returned under warranty claim and shall make such repairs or replacements as may be judged necessary, in as expeditious a manner as possible.

IN THE EVENT that the company determines the claim to be made as a result of improper use, abuse, modification, shipping damage or other factors beyond the reasonable control of the company, the company will advise the purchaser of the estimated repair costs. The company makes no warranty other than that contained in this statement. No agent other than an executive officer of Intercomp Corporation is empowered to modify in any manner this statement of warranty.

Introduction

This manual contains specifications and operating instructions for the Intercomp J&M Handheld Remote.

Specifications

Controls

	On/Off, MENU, ZERO, SETUP, TARE, Lights, Conveyor
General Functions	Stow/Extract, Conveyor On/Off, BIN Select, Door Open/Close,
	Gross/Net, TALC, Engine Start/Stop, Shift, Roll Tarp Open/Close
Display	3.3in (measured diagonally) Graphic LCD with backlight

Electrical

Batteries	4 X AA alkaline batteries
Battery Life	160 hours (or 80 hours with backlight on)

Environmental

Humidity	10 to 95% Non-Condensing
Temperature	Operating: -10°C to +60°C / 14°F to +140°F Storage: -30°C to +70°C / -22°F to +158°F

Physical

Size	3.8in x 1.6in x 8.3in (97mm x 40mm x 210mm)
Weight	15oz (430g)

Radio

Radio Frequency	ISM 2.4GHz, 802.15.4, DSSS*
License Requirements	None. Pre-approved US/FCC, CAN/IC, EUR/CE
Range	200ft / 60m indoor, 300ft / 90m line of sight

Radio Notes: Frequency: ISM 2.4GHz (2.400GHz - 2.483GHz), with 12 channels (CH 1-12) within that range with each center frequency = 2405MHz + (CH * 5) MHz Power output 63mW (18dBm), 10mW (10dBm) for international variant. Antenna is internal surface mount with -1.5dbi gain, omni-directional.



WARNING: To satisfy FCC RF exposure requirements for mobile transmitting devices, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended. The antenna used for this transmitter must not be colocated in conjunction with any other antenna or transmitter.

J&M Handheld Remote

Handheld Remote



Handheld Remote Key Functions

Scale Controls

KEY	FUNCTION	
ON/OFF	Press the On/Off key to cycle power on and off.	
ZERO	Press and hold ZERO key to zero the scale when there is no load applied.	
SETUP	Pres the SETUP and ZERO key to access the Menu. Press the SETUP key to save a Menu option edit.	
GROSS/NET	Use the G/N key to view weight in either Gross or Net weight view.	
TARE	Press TARE to set the displayed weight as the TARE weight. Press TARE and ZERO keys simultaneously to clear a saved TARE weight and return to GROSS weight.	

HANDELD KEY FUNCTIONS (Continued)

Door Controls

DOOR 1 UP	Press the DOOR 1 UP key to open door number 1.			
DOOR 1 DN	Press the DOOR1 DOWN key to close door number 1.			
DOOR 2 UP	Press the DOOR 2 UP key to open door number 2.			
DOOR 2 DN	Press DOOR 2 DOWN key to close door number 2.			

Position Controls

KEY	FUNCTION				
TALC	The TALC key controls the operation and speed of the TALC dispenser. Press key to toggle TALC on and off. TALC has 10 speed settings. Hold SHIFT and Press TALC to cycle through speeds See table below for TALC dispense rates.				
UP	Press the UP key to raise the conveyor.				
DOWN	Press the DOWN key to lower the conveyor.				
AUTO DISP	Press the AUTO DISP key to activate/setup an auto-dispense operation.				
FRONT	Press the FRONT key to move the conveyor towards the front.				
REAR	Press the REAR key to move the conveyor towards the rear.				
CONV	The CONV key controls the operation and speed of the conveyor system. Press key to toggle conveyor OFF and ON (Last Set Speed). CONV has 4 speed settings: OFF, HIGH, MED and LOW. Hold SHIFT and Press CONV to cycle through speeds				
LIGHTS	Press the LIGHTS key to turn the optional work lights on and off.				
BIN	Press the BIN key to toggle through the available bins.				

Engine Controls

KEY	FUNCTION
START	Press the START button to turn-on the gas engine
STOP	Press the STOP button to turn-off the gas generator.
SHIFT	Press SHIFT to show a help menu. Hold SHIFT to perform the selected buttons alternate function.

HANDELD KEY FUNCTIONS (Continued)

Roll Tarp Controls

KEY	FUNCTION		
OPEN	Hold SHIFT and press OPEN to roll up tarp to uncover load		
CLOSE	Hold SHIFT and press CLOSE to roll down tarp to cover load.		

T/	ALC APPLICAT	OR FLOW CON	NTROL SETTIN	GS
		LC290/LC390		
Talc Speed	Cups/Min	Lbs/Min	Cups/Unit 1 Door 24.4 Lbs/Min	Cups/Unit 2 Doors 30.0 Lbs/Min
1	0.6	0.2	0.05	0.04
2	1.3	0.4	0.1	0.08
3	3.8	1.3	0.2	0.10
4	6.6	2.2	0.3	0.2
5	9.0	3.0	0.4	0.3
6	14.5	4.8	0.6	0.5
7	21.5	7.2	0.9	0.7
8	27.5	9.2	1.1	0.9
9	35.0	11.7	1.4	1.2
10	40.0	13.4	1.6	1.3

TALC rate changes with speed of conveyor for consistent application rates.

*Refer to your planter's manual for appropriate talc application rates.

Menu

Menu Options

Press the SETUP and ZERO keys simultaneously to access the Menu options.

- Press the UP (ZERO) and DOWN (G/N) arrow keys to cycle through the Menu options.
- When viewing an option, press the SETUP key to edit the setting. Use the UP (ZERO), DOWN (G/N), and LEFT (TARE) keys to edit the number. When editing is complete, press SETUP to save.
- Press the SETUP and ZERO keys simultaneously to exit the Menu.

Menu Option	Description	Default
NUMBER OF BINS	Enter # of Bins to be used during dispense Bin Mode (0-to-10)	02
BACKLIGHT	OFF: Always off.5sec: Backlight stays on for 5 seconds after pressing any key.1min: Backlight stays on for 1 minute after pressing any key.ON: Always on.	1 min
UNITS	Ib or kg. Changing the units will also change the units on any scale currently communicating with the remote.	lb
AUTO OFF	Remote will turn off after 1-240 minutes without pressing any key. 0=no auto off. Changing the setting will also change the auto off setting on all scales currently communicating with the remote.	20
RADIO SETTINGS	Enter Channel (1-12) and PAN ID (0-65534). Editing these settings will also change the radio settings on all scales currently communicating with the remote. The scale Indicator and wireless remote used together in a system must have the same radio settings.	10/xxxxx
READ ONLY	OFF or ON. When "ON", the indicator will only read the weights of the scale and offer no control of scale functions. For example, when the remote is in Read Only mode it will not be able to Zero the scales or control dispense operations. The Read Only mode is useful when using another indicator to provide control over the scales while using the remote as a secondary display.	OFF
SCALE SETTINGS	Diagnostic function to view the settings on the scale indicator.	-
SCALES OFF	YES or NO. If "YES" is entered: When indicator is turned off it will first send a wireless command to turn off the scale.	YES

Menu Options (Continued)

Menu Option	Description	Default		
CAL ENABLE	CAL ENABLE controls access to Cal Strap protected menu options. To access the protected menu options, enter "477" to enable the CAL ENABLE setting. Default setting is "OFF".	OFF		
	THE FOLLOWING SETTINGS ARE ONLY ACCESSIBLE WHEN THE CAL ENABLE FUNCTION PASSWORD (477) HAS BEEN ENTERED.			
HIGH PREACT	High speed PREACT weight, 0-9999 lb	200		
MEDIUM PREACT	Medium speed PREACT weight, 0-9999 lb	6		
LOW PREACT	Low speed PREACT weight, 0-9999 lb	2		
HIGH CLEANOUT	High speed cleanout PREACT adder, 0-200 lb	100		
MEDIUM CLEANOUT	Medium speed cleanout PREACT adder, 0-200 lb	20		
LOW CLEANOUT	Low speed cleanout PREACT adder, 0-200 lb	4		
DOOR CLOSE	Door close time, 1.0 – 9.9 seconds. NOTE: Internally, the time	1.8		
TIME [A]	will be rounded to the nearest 0.25 seconds.	1.0		
DOOR CLOSE TIME [B]	Door close time, 1.0 – 9.9 seconds. NOTE: Internally, the time will be rounded to the nearest 0.25 seconds.	5.5		
CONVEYOR DELAY	Conveyor delay when switching from high speed to medium speed during dispense. 0.0-9.9 seconds.	2.0		
GRAD	GRAD 2lb / 1kg to 100lb / 50kg. Enter the minimum graduation the scale should display. Editing the GRAD setting will change the graduation size on all scales communicating with the remote.			
AVG RATE	AVG Rate range (1-120). Higher numbers will average more readings and will result in a more stable but slower responding display. Select 1 = no averaging. NOTE: The scale updates at 4Hz, so an AVG. RATE of "8" equates to 2-seconds of averaging. Editing the setting will change the average rate on any scale indicator in communication range.	12		
AZT	AZT range (off, 0.6, 1.0, 3.0, 0.5). Auto Zero Tracking continuously maintains a zero indication with no load applied on the scale. Enter the maximum number of graduations that can be automatically zeroed off. Editing the setting will change the AZT on all scales communicating with the remote.			
DEFAULT CPU Resets the settings on the handheld remote to factory defaults.		-		

Operation

Automatic Dispense Mode

The Handheld Remote has built-in capability to manage an Automatic Dispense operation. When in Auto Dispense mode, the Handheld Remote can be used to dispense seed and control the various functions of the seed tender.

- To commence an Auto Dispense action, press SETUP to input the following auto dispense parameters: Dispense (Total) Weight, Number of Rows and Door Selection (1, 2, both or alternate). Upon entering the required settings, the indicator is in Dispense Ready mode and the display screen will show:
 - a. Amount of product to dispense per row.
 - b. Row 1/xx (rows will count up as they are executed).
 - c. Door number for the first dispense (1, 2 or 1+2).
- 2. Press the AUTO DISP key to commence the auto dispense sequence. The live weight on the scale is designated the "live weight" and is the starting point for calculating and displaying dispense weights. An icon will be displayed confirming the indicator is now in "Dispense in Progress" mode.

Out Of Seed Detection

The Handheld Remote monitors the product flow rate during an auto dispense sequence. If the flow rate unexpectedly stops, the system determines the seed bin is empty:

- 1. An Out of Seed warning will be displayed on the handheld screen.
- 2. The conveyor will stop and the door will close. The Dispense Ready mode is in standby with the remaining weight to be dispensed shown on the handheld screen. Verify seed is available for dispensing. Press AUTO DISP to continue the dispense operation.

Handheld Remote Key Functions

Handheld Remote key functions associated with specific auto dispense sequences are defined in the following paragraphs.

Sequence:	Normal Mode				
Description:	 Dispense Mode Not Activated. AUTO DISP: No function. CONV: Enable/Disable conveyor. SHIFT-CONV: Cycle through speeds Speed3-Speed2-Speed1. SETUP: Access Menu to setup dispense parameters and transition to Dispense Ready mode. 				
Sequence:	Dispense Ready				
Description:	 Dispense Parameters Ready. Press AUTO DISP to commence dispense sequence. AUTO DISP: Press AUTO DISP to begin the dispense operation. CONV: Momentary pulse of the conveyor at low speed. Press CONV to enter the Dispense Ready / Weight Tracking mode. SHIFT-CONV: No function. SETUP: Exit dispense mode. 				
Sequence:	Dispense Ready / Weight Tracking Mode				
Description:	 Weight changes track on the displayed dispense amount. The Dispense/Weight tracking icon will be displayed on the handheld screen. Press AUTO DISP to start Auto Control (conveyor startetc.) action. AUTO DISP: Press AUTO DISP to begin the dispense operation CONV: Momentary pulse of the conveyor at low speed. SHIFT-CONV: No function. SETUP: Exit dispense mode. 				
Sequence:	Dispense in Progress Mode				
Description:	 Product being actively dispensed. AUTO DISP: Stop the conveyor and Door Close. Return to Dispense Ready mode (paused) with remaining weight shown. Press AUTO DISP to continue the dispense operation. CONV: Same as AUTO DISP. SHIFT-CONV: Cycle through speeds: Speed3-Speed2-Speed1. NOTE: PREACT weight settings are influenced by conveyor speed. Changing conveyor speed will alter the effect of the PREACT setting used for the dispense. SETUP: Stop the conveyor and exit dispense mode. 				

Handheld Remote Key Functions (Continued)

Sequence: Wait for Weight Drop to 6lbs or Less

Description: Low or medium speed PREACT weight has been reached, door(s) are closed and conveyor is off, but target weight of 6 lb or less has not been attained, prohibiting the remote from advancing to the next row.

- AUTO DISP: Pause dispense sequence to return to Dispense Ready mode with remaining weight shown. Press AUTO DISP to continue the dispense operation.
- CONV: Momentary pulse of the conveyor at low speed.
- SHIFT-CONV: No function.
- SHIFT: Advance to the next row (regardless of weight or motion).
- SETUP: Exit dispense mode.

Sequence: Any Mode

Description: POWER Key

• The Power key operates as an E-stop and will stop the conveyors and all other functions. Employing the Power key feature will not close the door, but instead will stop the door while in motion.

PREACT Weight

The PREACT weight setting compensates for seed that is still inbound when the auger/conveyor is stopped or the door/gate is closed at the end of an Auto Dispense operation. The PREACT weight may require adjustment based on auger/conveyor speed, chute length/size, gate/door timing (opening and closing), product type or weight. If a seed tender is dispensing too much seed, the PREACT weight should be increased by the overfill weight. If the tender is dispensing too little seed, the PREACT weight setting should be decreased by the weight of the underfill.

PREACT Adjustment Example

Seed Tender: If 50 lbs. of seed remains in the unloading tube after the auger/conveyor is stopped, the PREACT would be increased by 50 lbs.

NOTE: Three PREACT weights and two door close times can be edited by accessing the MENU, selecting the CAL ENABLE option and entering password "477" to enable the "CAL Enable" settings. When enabled, the PREACT weight HIGH, MEDIUM and LOW, and Door Close A and Door Close B settings can be edited

How to Contact Intercomp Service

Please provide the following information when requesting service for the J&M Handheld Remote:

- 1. Item Description and Part Number (if available)
- 2. Serial Number(s) of Item (if available)
- 3. When was item purchased (mm/yyyy)?
- 4. Where was item purchased (company/location)?

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ADVANCED SEED DELIVERY

SETUP THE AUTO DISPENSE - Set the remote to unload a desired

amount of weight with the press of a button. • Press **SETUP** or **Auto Disp** button to setup the Auto Dispense. Use the **ZERO** and G/N to increase or decrease the value and **TARE** to move the cursor.

DISPENSED WEIGHT (20# - 99, 999#)

• Enter the amount of weight to be unloaded per row. Press **SETUP** to save and continue.

ROWS (1-99)

• Enter the amount of rows during a complete Auto Disp. sequence. Press **SETUP** to save and continue.

DOOR (1, 2, BOTH, ALTERNATE)

• Select the door(s) for an Auto Disp. sequence. Press **SETUP** to save and continue.

USING AUTO DISPENSE

- After setup is complete, you will enter the Auto Disp screen.
- Press AUTO DISP to start.

PAUSING AUTO DISPENSE

- Pressing **AUTO DISP** during an auto dispense cycle will pause the cycle, closing the door(s) and stoping the conveyor.
- Pressing AUTO DISP again will resume.

TOP OFF

C

• Holding **CONV** will start the conveyor at the lowest speed after a completed Auto Dispense row.

EXITING AUTO DISPENSE

• Press SETUP to exit Auto Dispense mode and return to main screen.

CONVEYOR CONTROLS - Run engine at full throttle for best results. • Press **CONV** to power the conveyor on or off.

Hold SHIFT and Press CONV to cycle through the 3 conveyor speeds

ENGINE CONTROLS - Set engine key to RUN and use full choke when cold starting engine.

- Hold OPEN/START until engine starts.
- Press CLOSE/STOP to stop engine.

ELECTRIC ROLL TARP*

Hold SHIFT and Hold OPEN/START to open the roll tarp
 Hold SHIFT and Hold CLOSE/STOP to close the roll tarp

LONG TERM STORAGE -

• With engine running, shut off fuel lever and wait until engine shuts off.

- Turn engine key off.
 Disconnect the ground cable(s) from the battery.
- Remove batteries from wireless remote.
- Low quality AA batteries can leak during long term storage and damage the remote.

- **BIN** The Bin feature allows you easily track how much weight is in each side of the Speed Tender. Any weight added or removed will only effect the Bin currently selected.
 - Press BIN to cycle through the available bins (GROSS, BIN1, BIN2)

BIN TARE

- Press BIN to select the bin to tare.
- Hold BIN on the remote
- Use the navigation buttons (Zero, G/N, Tare) to enter the tare weight
- Press SETUP to save

BIN FOLLOW - The scales will automatically select a bin depending on which door was opened last. This happens in auto dispense or manually. **Bin Follow is** DFF **by default.**

TO ENABLE

 $\frac{2}{T}$

- Press MENU on the Main Indicator until to see bl n FL
- Press **MENU** again and select \square_{\square} using the arrow keys.
- Use the **ON/OFF** button to power cycle the indicator.

REMOTE PAIRING - Turn off the Remote and Scale Indicator beforehand.

- Hold **ON/OFF** on the Wireless Remote for 6 seconds.
- Hold **ON/OFF** on the Scale Indicator for 6 seconds.
- Set the numbers displayed to match each other.
- Press SETUP to save the remote's new PAN ID

TALC CONTROLS* - Talc will only activate with the conveyor and

- adjusts automatically with conveyor speed.
- Press TALC to power the talc on or off.
- Hold **SHIFT** and Press **TALC** to cycle through the 10 talc speeds. Use chart below to set the desired talc output



TALC APPLICATOR FLOW CONTROL SETTINGS

Talc Speed	Cups/Min	Lbs/Min	Cups/Unit 1 Door 24.4 Lbs/Min	Cups/Unit 2 Doors 30.0 Lbs/Min
1	0.6	0.2	0.05	0.04
2	1.3	0.4	0.1	0.08
3	3.8	1.3	0.2	0.10
4	6.6	2.2	0.3	0.2
5	9.0	3.0	0.4	0.3
6	14.5	4.8	0.6	0.5
7	21.5	7.2	0.9	0.7
8	27.5	9.2	1.1	0.9
9	35.0	11.7	1.4	1.2
10	40.0	13.4	1.6	1.3

WC3-D Quick Guid