

Document: #HT000189

Document Title: Scale Filter Set-Up for Digital Load Cells

Product(s): TUS-9000 Procedure:

Setting the Scale Filters will help the scale to maintain a Zero weight when the scale is empty. Go to Main Menu by pressing the Yellow Bagger Settings Button.

| Part REDDEEGINIKINNOPORSIUMAXY | BO ACCUM | STOP | MANL ick Start | SETUP |
|--|-------------------------|--|--|---|
| City Hessie Note ABCDEFGHIJKLMNOPORSTUWWXY Power OFF Clear No Label Clear Reprint Buffer Clear Nip Open Clear Label Parameters Ribbon Rewind Darkness -12.3 Print Speed 12 Quantity 12345 Length 12.345 Preset Count 12345 Total Count 12345 Production Time hhh : mm: ss: RESET | IT LE Reprint OFF | Speed C 1223 1223 1223 1223 1223 1223 1223 12 | ZERO Unrent Count / V pcs f12345 tal Count / Wei pcs f12345 tile Time ale Cycle Tray Cl Reject | Count % 123 23 23 23 23 23 23 23 23 23 23 23 23 2 |
| Operation Recipe Temperature List Graph | Graph Job Search | Bagger Settings | Scale Settings | |

Press the Yellow Technical Assistance Button.

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|-----------------------|--------------------|--|--|--|--|-----------|-------------------------|-----|
| | For tech | HMI Version: LC Version: mical assista | TUS 9k Bagger T Scale US Printer T | 350(T105 1k [123]9801 9k [123]9801 1Z [123]980 1Z [123]980 |) EFREDEFS EFREDEFS DEFGHT e departmer | ıt | | |
| | | Advano A P | ced Poly-Pa 1331 Emmit kron, OH 443 hone: (330) 7 | ackaging Ind t Road 306, USA 785-4000 | C. | | | |
| Operation PassCode | PLC IO Status | Option PassCode | Printer Status | Factor Setting | y APF Is Facto | Pl Lice | nse | |
| Operation | Bagger Settings | Part Sample | Options | Counters | Job Save | Job Searc | Technical Assistance | |
| Event Log | Weight Log | Production Timers | I emperature Graph | Production Graph | Recipe List | Auxiliary | Information | 兢 |



Enter Code 1001 and press Enter on the Keypad.

Press the Yellow APPI Factory Button.

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| | F | IMI Version: LC Version: | TUS 9k Bagger T Scale US Printer T | 350(T10S 1k (123/ABC) 9k (123/ABC) 1Z (123/ABC) |) EFFHBCDEFG EFFHBCDEFG JEFGHT | | | |
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| Operation | Bagger Settings | Part Sample | Options | Counters | Job Save | Job Search | Technical Assistance | |
| Event Log | Weight Log | Timers | Graph | Graph | Recipe List | US-9000 | Information | 53 |



Enter the Code 9001 and press ENT on the Keypad





| T STOP | MANL | SETUP | US9000 C | | | SETUP | HOPPER | SCALE CYCLE |
|--------------|--------------------|----------------------|----------------------|---------------------|-------------|----------------------|-------------------------|----------------------|
| Sca Read | Scale Filter Setup | | | | | ABCDEFGHIJKL | | |
| Filter Mode | e IIR=0 | Write I | -M (0) | | Read Weig | ht Decim | al P Se | erial N |
| Filter Level | 0 | Write | FL (7) | | Baud Rate | e Save | DP Fir | mware |
| Update Rate | e 0 | Write | JR (4) | | | | S | itatus |
| Motion Rang | e 0 | Write I | MR (8) | | | | | TAC |
| Stable Time | e 0 | Write | ST (1000 | 0) | | | TAC | C Reset |
| Resolution | 1 | Write | ST | Save | | | | |
| | | | 5 | Soft Reset | | | | |
| 923 | | | | | 1 | | | |
| Operation | Bagger Settings | Part Sample | Options | Counters | Job Save | Job Search | Technical Assistance | Scale Calibration |
| Event Log | Weight Log | Production Timers | Temperature Graph | Production Graph | Recipe List | Auxiliary US-9000 | Machine Information | Scale COM |

The LED light will not be Green on the Scale Configuration Screen.

In the Scale Configuration Screen under Scale Filter Setup there are three columns labeled Read, Set and Write.

| Scale Filter Setup Read Set Write | | | | | |
|--------------------------------------|-------|----------|------|--|--|
| Filter Mode | IIR=0 | Write FM | (0) | | |
| Filter Level | 0 | Write FL | (7) | | |
| Update Rate | 0 | Write UR | (4) | | |
| Motion Range | 0 | Write MR | (8) | | |
| Stable Time | 0 | Write ST | (100 | | |
| Resolution | 1 | Write ST | | | |

Press Filter Mode Button under the Read Column.



The Value that is set in the program will be displayed in the Display Window.



Filter Mode should display IIR=0 or 0 as in the parentheses to the right of the Write Column.



If the Filter Mode value displayed is not IIR=0 or 0; use the Set Column (Middle Column) Button to adjust the value to IIR=0 or 0.



After the Filter Mode value has been adjusted to IIR=0 or 0 press the Write FM Button under the Write Column.



Press the Blue Save Button.



To confirm that the new value has been saved into the program press the Filter Mode under the Read Column and the new value of IIR=0 or 0 should be displayed in the Display window.

Repeat the above steps for each Button under Scale Filter Set-Up. The values for each button should be adjusted to match the value in the parentheses. The Resolution Value is based on the digital Load Cell rating: 5kg to 10kg load cell would have a Resolution of 1 20kg load cell would have a Resolution of 2 40kg load cell would have a Resolution of 5 If the Resolution value was changed, the Scale will have to have the calibration procedure performed to save the change in value in the program.

NOTE: Pressing the Blue Save Button will NOT save the Resolution new value to the program. Press the Yellow Scale Com Button.



The LED light should be Green. If the LED light is not Green press the Red Comm Button.



The Red Comm Button should toggle to Green COMM and the LED light should light Green.



Press the Yellow Scale Calibration Button



In the Scale Calibration Screen the LED light should be Green. If the LED is not Green, then check if the Communication Button is ON in the Scale Communication Screen. See previous step.

A Green LED is an indication of communication between the Digital Load Cell and the PLC.

NOTE: The LED light is not ON during the Calibration process.

To Start the Calibration process, press the Green Start Calibration.



Follo w the prompts in the display window



Wait for the prompt.



Press the Green New Zero Button when prompted

| 0 | f1234 | 5.6g | ZERO | |
|----|----------------------|-------------|--------------------|--|
| | Scale cl | eared, pres | ss 'NEW ZERO' | |
| le | START CALIBRATION | NEW ZERO | Calibration Weight | |
| Op | | SAVE | END CAL | |

Wait for the prompt.

| | f1234 | 5.6g | ZERO | |
|----|----------------------|-------------|-------------------------------|--|
| | | Wait\ | Wait | |
| le | START CALIBRATION | NEW ZERO | Calibration Weight 1234: g | |
| Op | | SAVE | END CAL | |

Place Calibration Weight on Scale, Touch Calibration Weight Button when prompted

| 0 | f1234 | 5.6g | ZERO | |
|----|----------------------|----------------------------|----------------------------------|--|
| | Place calil Touc | bration wei h "Calibrat | ght on the Scale, ion Weight" | |
| le | START CALIBRATION | NEW ZERO | Calibration Weight 1234 g | |
|)p | | SAVE | END CAL | |

Enter Calibration Weight on Keypad and press ENT on Keypad

| Calik | oration | Weight (gm) |
|-------|---------|--------------|
| 7 | 8 | 9 max 12345 |
| 4 | 5 | 6 min 12345 |
| 1 | 2 | 12345 |
| 0 | CLR | ENT Exit |
| | | |

The weight displayed should equal the calibration weight

| f12345.6g ZERO | | | | | | |
|--|-------------|--------------------|--|--|--|--|
| Press 'SAVE' to accept if weight is shown correctly or 'CANCEL' to discard and start over | | | | | | |
| le START CALIBRATION | NEW ZERO | Calibration Weight | | | | |
| <u>Op</u> | SAVE | | | | | |

Press the Green Save Button



The Scale has now been calibrated and the Resolution Saved.

Press END CAL.

All set.