A New Dimension to Bench-top Fluid Dispensing

PRODUCTIVITY-ENHANCING DIGITAL DISPENSERS/ CONTROLLERS FROM ADHESIVE DISPENSING LTD



TS250 Series SETUP GUIDE October 2005



Safety Precautions

- Do not operate this unit in excess of maximum ratings/settings
- Always wear appropriate personal protective clothing or apparel
- Use only approved power adaptor models:
- ✓ PSA15R-240P(ZJ)
- PW118RA2403B01
- PW118RA2403H01
- PW118RA2403M01



Symbol Definition



Cycle Mode: Select Purge, Continue and Interrupt

Timer: Set dispense time

Pressure: Regulate air pressure

Vacuum: Regulate vacuum force

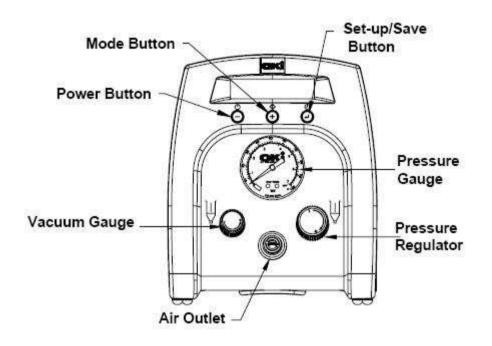


Specifications

- . Input Voltage: 24 VDC
- Maximum Air Output Pressure:
- TS250 = 100 psi (6.9 bars)
- . TS255 = 15 psi (1.0 bars)
- · Vacuum Force: 16" (406mm) of Hg
- . Timer: 0.020-60 seconds
- Repeat Tolerance: +/- 0.001%
- · Cycle Mode: Continue, Purge (Manual), Interrupt
- Cycle Rate: 600 cycles/minute

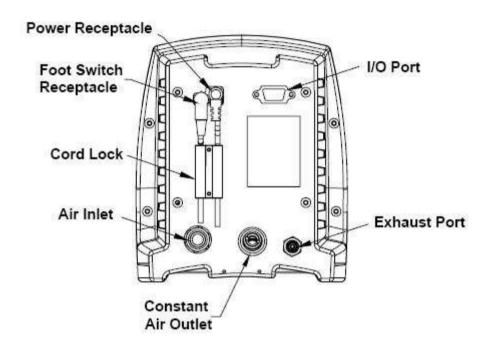


Features – Front View



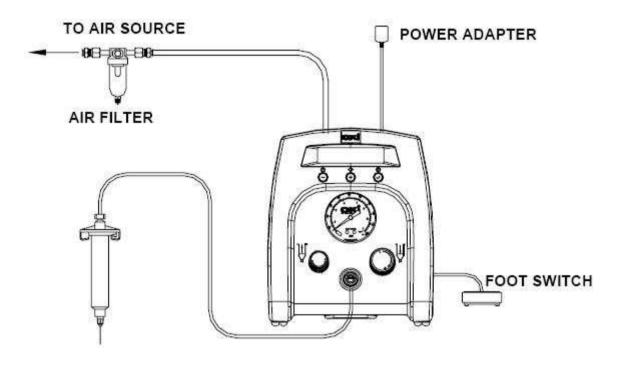


Features – Rear View





Typical Connection





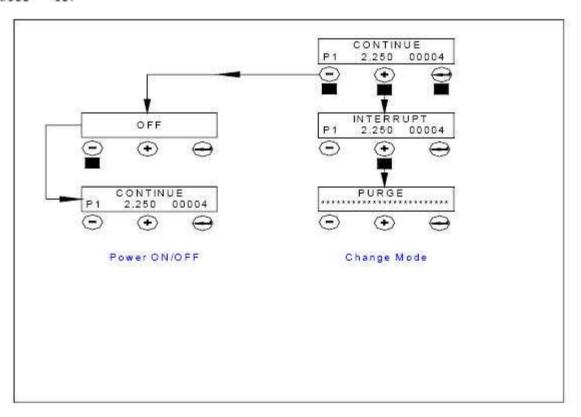
Operation Modes and Display Indicators

- Mode = A process that performs a specific action or a group of actions that results in an expected outcome
- Continue Mode = Once the Foot Switch is depressed and released, the timed-dispense cycle is activated and continued for a preset time duration
- Interrupt Mode = Time-dispense cycle activated when Foot Switch is depressed and must be maintained to complete the cycle - dispense cycle will be interrupted when Foot Switch is released
- Purge Mode = Dispense cycle activated and continued as long as Foot Switch is depressed
- Blinking Cursor = Indicates which field can be modified
- (+) Activation Button = Press this button to increase the value setting
- (-) Activation Button = Press this button to decrease the value setting



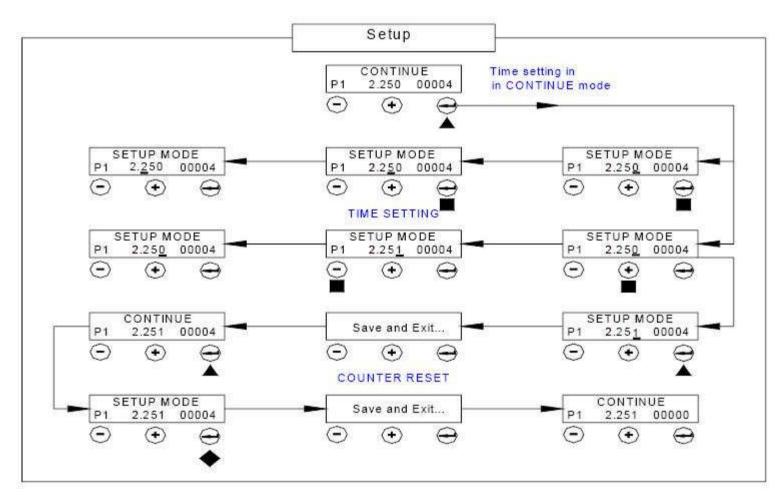
Setup – Operation Diagram (Mode Selection)







Setup – Operation Diagram (Time & Counter Setting)

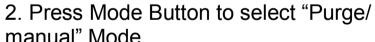




Setup – Purge Dispense Cycle

1. Press Power Button to turn on unit









Setup – Purge/ Manual Dispense Cycle - continued

3. Rotate Air Pressure Regulator knob clockwise (CW) until desired pressure is indicated on the pressure gauge

Pressure Gauge

Air Pressure Regulator Knob





Setup – Purge/ Manual Dispense Cycle - continued

4. Attach Receiver Head Assembly to syringe





5. Connect plug end of Receiver Head Assembly to air outlet



Setup – Purge/ Manual Dispense Cycle - continued

6. If vacuum "suck back" is needed, rotate Vacuum Control Knob



Vacuum Control knob



7. Depress Foot Switch to activate dispense cycle



Setup – Auto Dispense Cycle: Time Setting

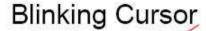
1. Push Mode Button to select "CONTINUE" or "INTERRUPT" Mode





Setup – Auto Dispense Cycle: Time Setting - continued

2. Press and hold Set Button for 2 seconds to enter "Setup" Mode (the last digit is highlighted with a blinking cursor)





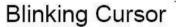


Press Set Button to move cursor to next position



Setup – Auto Dispense Cycle: Time Setting - continued

4. Press (+) or (-) Activation Button to set desired dispense time







5. Press and hold Set Button for 2 seconds to save data



Setup – Auto Dispense Cycle: Time Setting - continued

6. Depress Foot Switch to activate dispense cycle





Cycle Counter Reset

To reset counter:

Press and hold Set Button for 2 seconds to enter Setup Mode then press and hold Set Button for 4 seconds to reset





Counter

Up to 65,535 cycles can be recorded



Troubleshooting

LCD does not light

- No power input: check power connection: turn on power

Unit will not actuate

- Foot Switch not plug in or loose: check Foot Switch connection
- Defective Foot : replace Foot Switch
- Loose connection inside unit: check for broken wires or loose connections
- Defective solenoid: replace solenoid
- Defective PC board: replace PC board

Unit will not pressurise

- Insufficient air pressure: increase air pressure
- Air hose not plugged in: check air connection
- Defective air regulator: replace air regulator



Troubleshooting - continued

System will not pull vacuum

- Vacuum setting is too low: increase vacuum setting
- Defective venturi: replace venturi
- Defective needle valve: replace needle valve

Inconsistent dispensing

- Air bubbles in adhesive: remove air bubbles, decrease vacuum setting
- Dispense time is too low: increase dispense time
- Dispense needle tip starting to clog: replace dispensing tip



Maintenance

- Make sure air supply is clean and dry recommend using an air filter such as part # TSD800-6
- Avoid connecting air supply in excess of 100 psi (6.9 bar) for TS250 and 15 psi (1.0 bar) for TS255
- Avoid turning barrels upside down or laying barrel so that material may run through airline to internal components use inline filter for adapter # 881-000-000
- Use amyl alcohol to clean surface of unit housing
- Use soft cloth to clean LCD display



I/O Configuration - End of Cycle Switch

Pin Function

- Pin 1 = voltage initiate + (5-24VDC)
- Pin 2 = voltage initiate -
- Pin 3 = "End of cycle" switch output(During cycle = ground, "End of cycle" = open)
- Pin 4 = "End of cycle" switch output(During cycle = ground, "End of cycle" = open)
- Pin 5 = contact closure (ground)
- Pin 6 = contact closure
- Pin 7, 8, 9 = available



Contact Information

TS250 and TS255 covered by 1 Year manufacturers warranty

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