Dispenser Pumpdown Unit Manual

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# Shipped Contents:

1. Kern Digital Scale PCD 2500-2
2. Kern Scale Power Adapter
3. 64GB USB Drive
4. Serial Cable
5. Serial to USB adapter
6. Control Box (*Internal: Raspberry Pi, Relay, Power converter*)
7. Power Cord for Control Box
8. Pumpdown Aluminum Frame (*Attached: Regulator, Solenoid Valve, Dual Rail Actuator, Steel backplate)*

Not Included:

1. Keyboard

2. Mouse

3. HDMI Cord / Monitor

# Hardware Setup

* Connect USB Drive to Control Box.
* Connect serial cable to serial/USB adapter.
* Connect serial cable to digital Scale.
* Connect USB adapter to Control Box.
* Connect mouse/keyboard to Control Box.
* Connect HDMI/monitor to Control Box.
* Connect control box output wire to solenoid valve on pumpdown frame.
* Connect air supply to regulator.
* Connect power to scale and to control box.
* Turn on power switch for control box.

# Software

# Diagrams

# Troubleshooting:

|  |  |
| --- | --- |
| Error | Solution |
| “USB not found. Data will not be saved. (Drive must be named exactly ‘USB’) [Errno 2] No such file or directory: ### | 1. Ensure that a USB stick in inserted to the Raspberry Pi computer.  2. Ensure the USB stick is named “USB”  3. Try reinserting and rebooting |
| “USB not found. Data will not be saved. (Drive must be named exactly ‘USB’) [Errno 13] Permission Denied: ### | 1. Open a console window and type:  ‘cd /media/pi’  ‘sudo rmdir USB’  ‘sudo reboot’ |
| No picture out from control box | 1. Ensure HDMI cord is seated properly  2. Ensure HDMI source is correct on monitor.  3. Ensure control box is receiving power indicated by green light on internal power supply  4. Ensure Raspberry pi is receiving power indicated by tiny red light on Raspberry Pi board |
| Dual rod actuator not extend/retracting | 1. Ensure air supply connected and regulator has high enough pressure set  2. |