

## Rainhart Cat. #AWBM-1650 Digital Counter

### Instruction Manual Supplement

#### Important Notes:

It is highly recommended that any person(s) operating the Wet Ball Mill and / or Digital Counter first read the following instructions in entirety, and identify the components discussed within, prior to operating the Digital Counter.

\*\*The Emergency Stop Pushbutton (A) is "**Engaged**" by pressing the red Pushbutton inward.

\*\*The Emergency Stop Pushbutton (A) is "**Dis-engaged**" by gently twisting the Emergency Stop Pushbutton (A) a few degrees to the right, and then releasing the Pushbutton

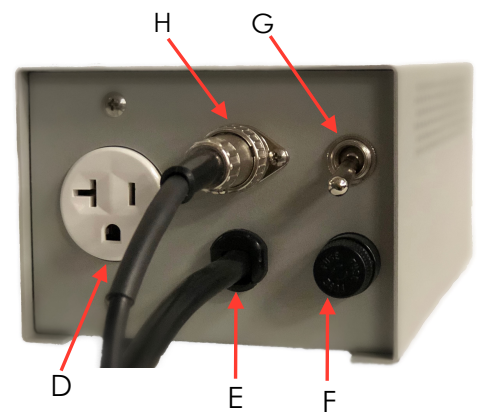
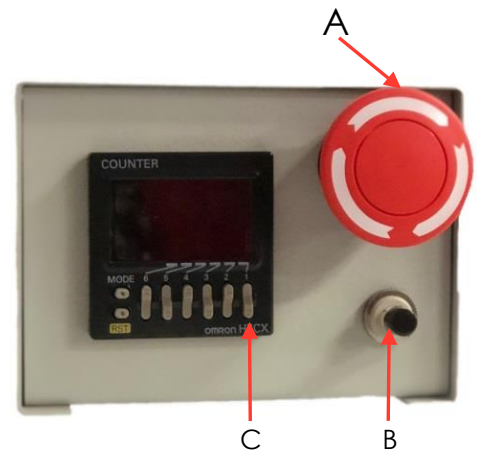
#### General Information:

Your Wet Ball Mill has been supplied with a Digital Counter that is separate from the frame of the Wet Ball Mill. This Digital Counter is to be placed on a tabletop or shelf near the Wet Ball Mill. The only part of the Counter that is to be attached to the Wet Ball Mill is the Photo-electric Sensor and its Mounting Bracket. This arrangement will provide you with increased longevity for your Digital Counter.

The Digital Counter is to be powered by a 120vac / 60Hz source, and should be on a dedicated 15 amp or greater circuit breaker within your electrical panel. We highly recommend against the use of extension cords and / or power strips in conjunction with our Wet Ball Mills.

#### Connecting the Counter:

- 1) Set the Power ON/OFF Switch (G) to its OFF position (down)
- 2) Engage the Emergency Stop Push Button (A)
- 3) Ensure that the Opto-electric Sensor is connected to the rear of the Counter at the Sensor Input Connector (H)
- 4) Connect the Counter Power Cord to your 120vac/60Hz supply
- 5) Connect the black power cord from the motor, mounted on the Wet Ball Mill, to the Receptacle (D) on the rear of the Counter
- 6) Use the supplied cable Ties to secure all cables so that they are clear of any moving parts in, on, or around the Wet Ball Mill.
- 7) Place the counter on a surface or shelf near the compactor that will be convenient for daily operation.



#### Legend:

- A Emergency Stop Push Button
- B Cycle Start Push Button
- C Soft Keys - Digit Adjust
- D Receptacle - Motor Power
- E 110V Input - Power Cord
- F Fuse
- G ON/OFF Switch
- H Sensor Input

## Programming the Counter:

- 1) Ensure that the Emergency Stop Push Button (A) is engaged.
- 2) Set the Main Power Switch (G) to its ON position (up)
- 3) Use the Soft Keys (C), to achieve the desired number of blows on your Wet Ball Mill (typically 600). Adjust the digits on the digital display by pressing the Soft Key located below the digit you would like to change. Each press of the Soft Key will adjust the corresponding digit by a count of "1"

## Starting the Wet Ball Mill:

- 1) Ensure that the Emergency Stop Push Button (A) is engaged.
- 2) Ensure that the Digital Counter has been programmed according to the steps listed above.
- 3) Press the Cycle Start Pushbutton (B), one time, to initiate the programmed cycle.
- 4) Gently twist the red Emergency Stop Pushbutton (A) a few degrees to the right to disengage. The Emergency Stop Pushbutton (A) will spring forward slightly released. Note: There will be a short delay, approx. 1-2 seconds before the Wet Ball Mill motor is energized and the Wet Ball Mill begins to operate. Rotation will continue until the pre-programmed number of revolutions has been reached.
- 5) To repeat the same program, press the Cycle Start Pushbutton (B) once a new sample has been loaded and you are ready to operate the Wet Ball Mill. The counter will reset to zero and the Wet Ball Mill motor will be energized and the **new cycle will start immediately.**

## Operating Procedures:

**To repeat the same program**, press the Cycle Start Pushbutton (B) once a new sample has been loaded and you are ready to begin the next cycle. The counter will reset to zero and **the new cycle will start immediately.**

**To pause a cycle**, engage the Emergency Stop Pushbutton (A). The compacting cycle will stop and the counter will hold the current blow count.

**To resume the paused cycle**, gently twist the red Emergency Stop Pushbutton (A) a few degrees to the right to disengage. **Once the Emergency Stop Pushbutton (A) is disengaged, the cycle will start immediately** and continue to its pre-programmed end point.

**To stop the counter before the cycle has reached its pre-programmed end point**, engage the Emergency Stop Push button (A) to stop the current cycle, then, when you are ready to begin a new cycle starting from zero, press the Cycle Start Pushbutton (B) to reset the counter to zero. Next, gently twist the Emergency Stop Pushbutton (A) a few degrees to the right to disengage. **Once the Emergency Stop Pushbutton (A) has been disengaged, the new cycle will start immediately.**

**In the event of a power outage engage** the Emergency Stop Pushbutton (A). When power has been restored, press the Cycle Start Pushbutton (B) to reset the counter to zero. Next, gently twist the Emergency Stop Pushbutton (A) a few degrees to the right to disengage. **Once the Emergency Stop Pushbutton (A) has been disengaged, the new cycle will start immediately.**