

WSM21 PRODUCTION COUNTER MANUAL

Operating Manual

Version: 2.4

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ELECTRO-MED

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1 OVERVIEW



1.1 FEATURES

- Input: Potential Free Contacts (COM NO)
- Customizable debounce time (0 to 100 ms) and minimum time between counts (0 to 10 minutes).
- 1000 V AC isolation between input and internal circuitry.

1.2 CONNECTIONS



Input Signal: Potential Free Contacts (COM NO)

Power: 220VAC

2 OPERATING PROCEDURE

- 1. Input Signal Connection
 - Connect the potential-free contacts from the sensor or switch to the designated input terminals.
 - Verify the connections are secure to avoid errors.
- 2. Power On
- 3. Operation
 - The device automatically begins counting based on the input signals.
 - The display will show the following information:
 - Current Hour Total: Counts accumulated within the current hour.
 - o **Previous Hour Total**: Counts accumulated during the hour.
 - o **Current Time**: Displays real-time clock information.
- 4. Reset Counts
 - To reset all totalizer counts, press the reset button, or short the reset terminals with a wire.
 - Ensure the reset action is authorized and documented if necessary.

3 DEVICE SETTINGS

3.1 TIME SETTING

- 1. Press button **DECR (B)**
- 2. HH start blinking
- 3. Set the Time as follows:
 - a. Press DECR (B) for decrement
 - b. Press **INCR (C)** for increment
 - c. Press ESC (D) to move to MM
 - d. Press ENTER (A) to Save and Exit
- 4. Time has now been set to HH:MM:00





© INCR

D ESC

3.2 RESET TOTALIZER VALUE

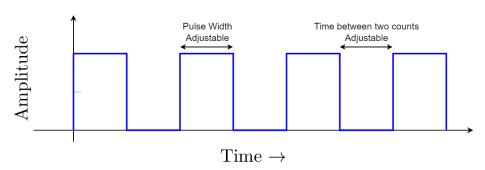
- 1. To reset all totalizer counts, press the reset button, or short the reset terminals with a wire.
- 2. The value of counter will become 0.
- 3. Ensure the reset action is authorized and documented if necessary.

3.3 DELAY & PULSE WIDTH SETTING

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Square wave



- 1. Press INCR (C) and ESC (D) buttons together
- 2. First, we set Time between two counts
- 3. Display will show (time between 2 pulses) (0 to 1000 sec)
- 4. Set the delay time (in sec) as follows
 - a. Press DECR (B) for decrement
 - b. Press INCR (C) for increment
 - c. Press ENTER (A) to Save and move to next setting
- 5. Second, we set Pulse Width
- 6. Display will show Pul 12 (pulse width in msec) (10 msec 1000 msec)
- 7. Set the pulse value as follows:
 - a. Press DECR (B) for decrement
 - b. Press INCR (C) for increment
 - c. Press ENTER (A) to Save and move to next setting

4 TROUBLESHOOTING GUIDE

#	Issue	Possible Cause	Solution
1	No display or power	Power supply is not connected or faulty	Check and connect the power supply correctly.
2	Counts not updating	Loose or damaged input signal connection	Inspect and reconnect the input cables securely.
3	Display shows incorrect totals	Configuration settings are incorrect	Verify and reconfigure the reset intervals.
4	Time not accurate	Clock not synchronized	Manually adjust the clock via the menu options.
5	Device unresponsive	Software or hardware issue	Restart the device or contact customer support.

5 GENERAL GUIDELINES

5.1 PRECAUTIONS

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- 1. Always ensure proper grounding of the device to prevent electrical hazards.
- 2. Avoid exposing the device to excessive vibrations or shocks.
- 3. Ensure cables are routed securely to prevent accidental disconnections.
- 4. Never open the device casing while it is powered on.

5.2 SAFETY INSTRUCTIONS

- 1. Operate the device within specified voltage and current ratings.
- 2. Keep the device away from flammable materials or environments.
- 3. Use insulated tools during installation and maintenance.

5.3 POWER REQUIREMENTS

Voltage: 220V AC, 50Hz

• Power Consumption: 10W max

5.4 ENVIRONMENTAL CONDITIONS

• Operating Temperature: 0°C to 50°C

- Storage Temperature: -10°C to 60°C
- Humidity: 10% to 90% non-condensing
- Installation Location: Dry and dust-free area (Preferred)

5.5 MAINTENANCE

- 1. Perform regular visual inspections for signs of damage or wear.
- 2. Periodically check and recalibrate the device as per the manufacturer's guidelines.
- 3. Clean the device with a soft, dry cloth. Do not use solvents or abrasive materials.

5.6 ADDITIONAL NOTES

- This device is designed to operate autonomously once set up.
- Maintain a log of all resets and maintenance activities for better operational tracking.
- Report any unusual behaviour or errors to support for immediate resolution.

6 WARRANTY AND SUPPORT

For support, mail us at <u>support@electromed.co.in</u> or visit us at <u>https://electromed.co.in</u>