GraLab 171

GraLab Model 171 60-Minute General Purpose Timer Instruction Manual

Model: 171 | Brand: GraLab

1. INTRODUCTION

The GraLab Model 171 is a versatile 60-minute electromechanical timer designed for various applications requiring precise timing. It features a clear analog display, dual timing functions, and integrated power outlets for controlling external devices. This manual provides essential information for the proper setup, operation, and maintenance of your timer.

2. KEY FEATURES

- 60-minute timing capacity with a 6.5-inch diameter face.
- Dual numbered rings for tracking elapsed time and stopwatch functionality.
- Two distinct hands for precise setting of minutes and seconds.
- Electric motor ensures high accuracy of +/- 0.015%.
- Two integrated power outlets for automatic switching of external electrical devices.
- Durable nonconductive plastic case with rubber base pads for protection against impact, chemicals, moisture, and electrical shock.
- Recessed handle for easy portability and keyholes for wall mounting.
- Automatic alarm with adjustable volume.

3. PRODUCT COMPONENTS

Image Description: This image displays the GraLab Model 171 timer. The front panel features a large circular dial with minute markings from 0 to 60. A central black knob with a pointer is used for setting the timer. On the top right, there is a 'POWER ON/OFF' switch. On the top left, indicator lights for 'TIMER AT ZERO', 'OUTLET CONTROL', and 'TIMER RUNNING' are visible. The left side of the timer housing shows two electrical outlets.

The timer consists of the main unit with its analog dial, a central setting knob, power switch, indicator lights, and two integrated electrical outlets.

4. SETUP INSTRUCTIONS

1. **Placement:** Place the timer on a stable, flat surface. Alternatively, it can be mounted to a wall using the integrated keyholes on the back of the unit.
2. **Power Connection:** Connect the timer's power cord to a standard electrical outlet (120V AC, 60Hz).
3. **External Devices:** If you intend to control external electrical devices, plug them into the two outlets located on the side of the timer. Ensure the devices are compatible with the timer's electrical specifications.

5. Operating Instructions

5.1 Powering On/Off

Locate the 'POWER ON/OFF' switch on the top right of the timer face. Flip the switch to 'ON' to power the unit. Flip it to 'OFF' to power down the timer.

5.2 Setting the Timer

1. To set the timer, rotate the central black knob clockwise to the desired time. The large hand indicates minutes, and the smaller hand indicates seconds.
2. The outer ring (0-60) is used for setting the primary timer function. The inner ring (0-60) can be utilized for stopwatch functionality or tracking elapsed time.
3. Ensure the timer is set to the desired duration before initiating the countdown.

5.3 Starting the Timer

Once a time duration is set, the timer will begin counting down automatically. The 'TIMER RUNNING' indicator light, located on the top left of the timer face, will illuminate.

5.4 Automatic Switching (Outlets)

When the timer counts down to zero, the connected external devices plugged into the side outlets will automatically switch off (or on, depending on the device's function and how it's intended to be used with the timer's outlets). The 'OUTLET CONTROL' indicator light will show the status of the outlets.

5.5 Alarm Function

Upon reaching the zero mark, the automatic alarm will sound. The volume of this alarm can be adjusted.

5.6 Resetting the Timer

To reset the timer, turn the central knob back to the zero position. The 'TIMER AT ZERO' indicator light will illuminate when the timer is at its starting point.

6. Maintenance

- **Cleaning:** Keep the timer clean by wiping its exterior with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these may damage the finish or internal components.
- **Cord Inspection:** Periodically inspect the power cord for any signs of damage, fraying, or exposed wires. Ensure it is properly connected to both the timer and the electrical outlet.
- **Storage:** Store the timer in a dry environment, away from extreme temperatures, direct sunlight, and excessive dust.

7. Troubleshooting

Problem	Possible Cause	Solution
Timer not powering on	Power cord unplugged or loose; Power switch in 'OFF' position; No power from outlet.	Ensure power cord is securely plugged in; Flip 'POWER' switch to 'ON'; Test outlet with another device.
Timer not counting down	Timer knob not set past zero.	Rotate the timer knob clockwise to set a desired duration.

Problem	Possible Cause	Solution
Outlets not switching devices	External devices not properly plugged in; Timer has not completed countdown.	Verify external devices are securely plugged into the timer's outlets; Ensure the timer has reached zero.
Alarm not sounding	Alarm volume set too low; Timer has not reached zero.	Check and adjust the alarm volume setting; Confirm the timer has counted down to the zero mark.

8. SPECIFICATIONS

- **Model:** GraLab 171
- **Timing Capacity:** 60 minutes
- **Accuracy:** +/- 0.015%
- **Face Diameter:** 6.5 inches
- **Dimensions (H x W x D):** 7.5 x 7.5 x 2.5 inches
- **Weight:** Approximately 2.6 pounds
- **Material:** Polycarbonate (case)
- **Power Outlets:** Two, for automatic switching of external devices
- **Alarm:** Automatic, adjustable volume

9. WARRANTY AND SUPPORT

9.1 Limited Warranty

The GraLab Model 171 timer comes with a limited one-year warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

9.2 Customer Support

For warranty claims, technical assistance, or product inquiries, please contact GraLab customer support. Refer to your purchase documentation or the official GraLab website for specific contact details and service procedures.
Manufacturer: GraLab, Centerville, OH, USA.