

OPERATION INSTRUCTIONS
GRALAB UNIVERSAL TIMER MODELS 170 & 171

The GRALAB Universal Timer is suitable for both automatic interval timing and elapsed time indication.

AUTOMATIC INTERVAL TIMING

For interval timing, the GRALAB Timer is used to switch external electrical appliances ON or OFF. It will also sound a built-in buzzer signal at the end of an interval.

The Model 171 will time any interval from 1 second up to 60 minutes with split-second accuracy.

The slow-moving hand (with hooked end) makes one revolution of the dial in 60 minutes and is used to set the "minutes" portion of the time interval.

The fast-moving hand (with plastic knob attached) makes one dial revolution in 60 seconds and is used to complete the setting in "seconds."

The hands are set in a clockwise direction on the outer circle of large numbers.

EXAMPLE: To set the timer for 2 minutes, 49 seconds.

- (1) Rotate the slow hand clockwise until it rests on the second graduation beyond the large 0 which corresponds to a setting of 2 minutes.
- (2) Using the plastic knob rotate the fast hand to the fourth graduation beyond the numeral 45 which corresponds to 49 seconds.

NOTE: For Model 170...change seconds to minutes, change minutes to hours.

To switch external electrical appliances ON or OFF automatically at the end of a selected interval, use the two receptacles on the side of the timer case.

The black receptacle is used to switch the appliance ON at the beginning and OFF at the end of the timer interval.

The white receptacle is controlled by the outlet selector switch located in the upper left hand corner of the timer dial. The pictographs on each side of the switch use "X" to indicate that no power is available at a particular receptacle.

Depending on the setting of that switch, the white receptacle will either duplicate the action of the black receptacle or will switch an appliance ON at the end of the time interval.

When the selector switch is moved to the left position, an appliance plugged into the white receptacle will be turned ON at the beginning of the interval and turned OFF when both hands reach zero.

With the selector switch in the right position, the white receptacle will turn an appliance ON at the end of the interval.

