

GR-90 TIME-O-LITE PHOTOGRAPHIC TIMER

INSTALLATION, OPERATION & SERVICE INSTRUCTIONS

1. INTRODUCTION

A. GENERAL. The Time-O-Lite Model GR-90 Photographic Timer is designed and manufactured by Industrial Timer Company, Centerbrook, CT 06409.

Consult Industrial Timer Co. on any unusual application, installation or possible modification of this basic design.

B. DESCRIPTION. The GR-90 is intended to provide fully automatic timing of all darkroom work. Interval and remaining time indicators can be read at a glance from the luminous dial. Linecord and enlarger outlet are polarized with a two wire ground connection. The output capacity is a 750 watt load.

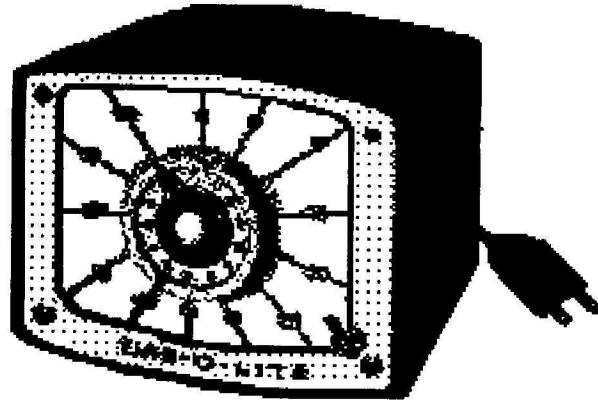
C. STANDARD MODELS

Model	Volts	Hertz	Maximum Time	Dial Calibration
GR-90	120	60	60 Sec.	1 Sec
Can be supplied for 120 Volts 50 Hertz				

2. INSTALLATION

A. GENERAL. Before installing your Time-O-Lite timer be sure to read these instructions.

WARNING: IN INSTALLATION AND USE OF THIS PRODUCT, COMPLY WITH THE NATIONAL ELECTRICAL CODE; FEDERAL AND STATE AND LOCAL CODES; AND ANY OTHER APPLICABLE SAFETY CODES. IN ADDITION, TURN OFF POWER AND TAKE OTHER NECESSARY PRECAUTIONS DURING INSTALLATION TO PREVENT PERSONAL INJURY, PROPERTY LOSS AND EQUIPMENT DAMAGE. IF INSTALLATION IS TO BE IN A VOLATILE, COMBUSTABLE OR EXPLOSIVE



ATMOSPHERE, THIS PRODUCT MUST BE HOUSED IN AN APPROPRIATE ENCLOSURE AS REQUIRED FOR USE IN SUCH ATMOSPHERE BY NATIONAL ELECTRICAL CODE AND ANY LOCAL APPLICATION STANDARDS.

The timer is designed for operation in a normal, clean environment containing no harmful contaminants or air particles. Installation and operation in a dirty, corrosive, contaminated or otherwise unclean environment may yield unsatisfactory performance or reduced life and reliability.

Do not install the timer in an area where it might get wet, or come in contact with any liquids.

B. MOUNTING The timer can be mounted in any position. Key holes are provided on the rear of the housing so it can be hung on a wall.

C. CONNECTING ENLARGER Plug the enlarger power cord into the black enlarger receptacle. Plug the line cord into a properly grounded 3-wire 120 vac receptacle.

3. OPERATION

A. TIME SELECTION. Turn the time selector knob to the desired time duration.

B. TOGGLE SWITCH. Putting the switch in the F (focus) position turns on the enlarger without starting the timing cycle. After focusing the enlarger, put the switch into the T (time) position. The enlarger will go off.

C. PUSH BUTTON. Pressing the "push button" will reset the timer to the set position and will start timing to zero. Do not push the "push button" while the unit is timing. The timer will reset.

D. CONTROL OF OTHER PROCESSES.

WARNING: WHEN THE TIMER IS USED TO CONTROL A MACHINE OR PROCESS WHERE PERSONAL INJURY OR EQUIPMENT DAMAGE MIGHT OCCUR AS A RESULT OF FAILURE OF ANY ELECTRIC OR OTHER TIMER FUNCTION, YOU ARE URGENTLY RECOMMENDED TO INSIST ON INSTALLATION OF SAFEGUARDS WHICH WOULD PROTECT THE OPERATOR AND/OR MACHINE IN THE EVENT OF ANY UNEXPECTED OPERATION OF THE MACHINE OR PROCESS.

The GR-90 timer can be used to control any device that does not require more than 750 watts at 120 vac.

4. IN CASE OF DIFFICULTY

NO attempt to repair or calibrate the timer should be made by the user. There are no user servicable parts inside the timer, and no attempt to open the case should be made.

If service is required, see the Limited Warranty for instructions.

5. LIMITED WARRANTY

Industrial Timer Company warrants to the original purchaser of this product that it will be free from defects in material and workmanship for a period of one year from the date of purchase. Industrial Timer will repair or replace, at it's option, free of charge, any product that is defective, provided that it is delivered during the warranty period, shipment costs prepaid, together with proof of purchase to: Industrial Timer Company, 30 Industrial Park Rd., Centerbrook, CT 06409, att'n service department. This limited warranty does not apply if the product has been subjected to misuse, negligence or accident; or misapplied; or modified or repaired by unauthorized persons when the defect is caused by such unauthorized modification or repair.

INDUSTRIAL TIMER SHALL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES. THE DURATION OF ANY IMPLIED WARRANTIES TO THE ORIGINAL PURCHASER IS LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. THE REMEDY FOR BREACH OF ANY SUCH IMPLIED WARRANTY SHALL BE LIMITED TO THE REMEDY PROVIDED UNDER THIS LIMITED WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.



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