DWA-H work-alerterTM

Programmable Sounding Device



OPERATIONS MANUAL



Operation Manual Addendum DWA-H

To improve the performance and reliability of this product, we have replaced the previous 10 AMP Dry Contact Relay, with a 10 AMP Solid State Relay. The new Solid State Relay only operates with 24 - 240 VAC external devices (bells, horas, etc.). External DC powered devices should not be connected to this unit.

Due to this change, please note the following corrections to this manual:

Page 3 FIGURE 2, item 9 should read 10 AMP Solid State Relay 24 - 240 VAC Only.

Form: A-OMPT9909

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WARNING: This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart I of part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operations of the equipment in a residential area is likely to cause interference, in which case, the user, at his own expense, will be required to take whatever measures may be required to correct the interference.

INTRODUCTION

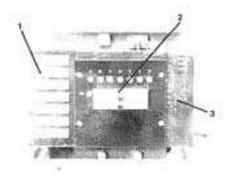
The DWA-H, digital work-alerterTM, is a self-contained user-programmable sounding device. It is capable of having up to 32 events that will repeat daily, and or weekly and can be scheduled for any combination of days. Other useful features include an easy to understand keypad, programmable signal duration, 12/24 hour display and battery back-up.

Read all directions carefully before programming and operating the DWA-H. Should it be necessary to return the unit, retain the original packing materials for shipping. This operations manual is designed to provide basic installation and operating instructions. For service beyond the scope of this manual, contact the dealer from whom the equipment was purchased or Lathem Time Company.

INSTALLATION INSTRUCTIONS

The DWA-H can be set on a desk or shelf, or mounted on a wall. A key hole for mounting is located on the back of the DWA-H. Hang the unit on a screw through the keyhole and then tighten the screw. Insert screws through the other two mounting holes inside the unit to secure on wall.

REFERENCE FIGURE



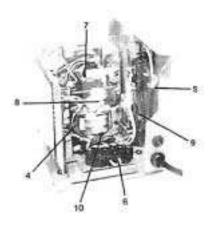


FIGURE 1

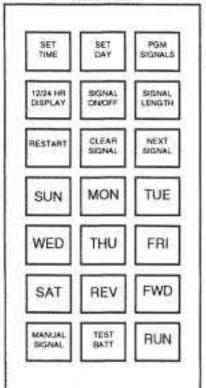
- Data Entry Keypod
- Digital Clock Display Printed Circuit Board

FIGURE 2

- 9 V Alkaline Battery
- Terminal Block #1 (TB1)
- Terminal Block #2 (TB2)
- Horn Assembly
- Electrical Connector
- 10 Amp Relay
- 10 Transformer

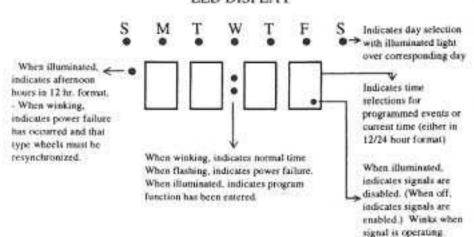
SETTING INSTRUCTIONS FOR DWA-H SERIES

KEYPAD



No security code is required to access program functions since the keypad is behind the locked cover. Unlock and remove the case cover.

LED DISPLAY



FUNCTIONS OF THE KEYPAD

BET

Initiates program to set time

BET

Initiates program to set day of week

PGM SIGNALS Initiates program to set signal schedule

12/24 HR DISPLAY

Allows choice of standard or continental hour format

SIGNAL

Allows enabling or disabling of programmed events signals

SIGNAL LENGTH

Allows choice of duration of signal events

RESTART

Restarts the clock after a display lock-up condition, leaving all schedules intact

CLEAR

Deletes previously programmed event; also stops signal currently in progress

NEXT SIGNAL Displays programmed signals from the current time forward

SUN

MON

Allows identification of current day of the week or day(s) of the week for programmed ETC, signal events

REV

Allows count-down in setting current time, times for programmed signal events, or duration of signals

FWD

Allows count-up in setting current time, times for programmed signal events, or duration of signals

MANUAL SIGNAL

Manually activates the signalling device

TEST BATT

Displays the battery's status ("Good" or "Lo")

RUN

Completes program sequence and returns clock to normal operation

GETTING STARTED

- 1. Plug the clock into the wall socket.
- Install 9 V akaline battery (not supplied)
- Choose the time format desired. (Below).
- Set the digital face. (below)
- Program the signals. (Page 7)
- 6. THAT'S IT! You're ready to go.

TO CHOOSE THE TIME FORMAT

The clock defaults to the 12 hour format and will appear on the display as 12:00, if the 12 hour format is desired, no action is required. If 24 hour format is desired:

1. Press

12/24 HRI DISPLAY The display should read 00:00. The key toggles between the two formats. To go back to 12 hour format, simply press this key again.

SETTING THE DIGITAL FACE

TO SET THE CURRENT TIME

The clock defaults to 12 midnight.

I. Press SET

3. Press FWD or REV

To advance or reverse numerals on Hr:Min face until correct time is shown. Minutes are advanced or reversed first, followed by the hour.

5. Press RUN The time is now set.

TO SET THE CURRENT DAY

The clock defaults to Sunday

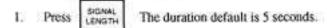
Press SUN MON Corresponding light over chosen day
 FTC. will illuminate.

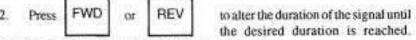
3. Press RUN The day is set.

TO PROGRAM SIGNAL EVENTS

The user may define the occurence, duration, and frequency of signal events. Upto 32 events, each consisting of a time and days of the week, may be assigned. The same time on multiple days is considered one event. During an attempt to programmore than 32 events, the display, "Full", appears, and the attempt is aborted.

TO ESTABLISH SIGNAL LENGTH





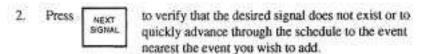
Duration possibilities range from 01 to 99 seconds.

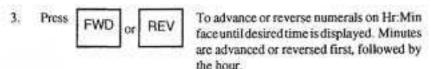
Press RUN The duration is set.

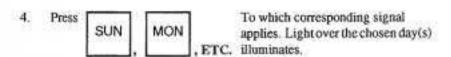
TO ESTABLISH SIGNAL EVENTS

1. Press FIGNAL5

The clock defaults to 12:00 midnight and will display consistent with the time format you previously selected. The colon will be illuminated and fixed, indicating the clock is in a programming mode.







Other events may be programmed by repeating steps 2 through 4. When all programs have been entered:

Press RUN The signal(s) has been added.

TO DELETE SIGNALS

1. Press PGM SIGNALS

Press NEXT SIGNAL As many times as necessary to reach the identified signal to be deleted. The signals scroll from current time forward.

Press CLEAN to delete signal. All day LED's extinguish.

Press RUN The signal has been deleted.

TO SOUND A SIGNAL THAT HAS NOT BEEN PROGRAMMED

Press MANUAL to sound the signal. The signal will sound as long as the key is depressed.

This signal is independent of the program signals function and works in either the enabled or disabled mode. When the manual signal is operated the disable light at the lower right of the minute display will flash.

TO ENABLE OR DISABLE SIGNALS GLOBALLY

To toggle between all programmed signals on or all programmed signals off:

I. Press SIGNAL GNOFF

To determine whether the programmed signals are on or off, look to the right of the minute display. If a light is illuminated, all signals are off and no signal will sound. If the light is not visible, all signals are on and will occur as programmed.

TO REVIEW SIGNALS

to review all signals which have been installed. If no signal has been programmed, the display remains the same current time. Review starts from current time.

POWER FAILURE

The clock's display keeps time according to line frequency (typically 60 Hz). During power failure, the unit automatically switches to an internal quartz crystal to maintain time. A 9-volt non-rechargeable battery maintains display time and memory for up to 15 accumulated days. When power is interrupted, the digital display disappears with the exception of the flashing colon and the programmed signals will not sound.

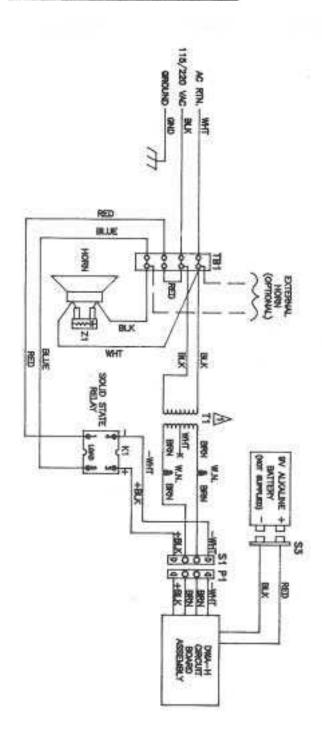
TO TEST THE BATTERY

Press 7EST BATT The display indicates "Good" or "Lo"

Since the battery is non-rechargeable, it should be replaced when the display indicates "Lo".

INTERNAL WIRING DIAGRAM

M WEE COLDES SHOWN FOR 115MC TRANSPORMS
220 VAC TRANSPORMER HAS YELLOW AND GREE
WHEEN WITH A SPACE GREEN WIRE FOLDED BACK
WHEEN WITH A SPACE GREEN WITH A SPACE FOLDED BACK
WHEEN WITH A SPACE



USER WORK SHEET TO ASSIST IN PROGRAMMING

Curren	D	ay:	S	М	T	W	T	F S	(circ	e on	e)			
Time F	on	nat		121	iour	C	241	bour						
Duratio	m c	of sign	al:	92			seco	onds						
Signal	Ev	ents:												
Time							Time (Circle Applicable Days)							
	S	М	т	w	т	F	S	s	м	T	w	T	F	s
	s	м	T	w	Т	F	S	s	м	т	w	Т	F	s
_	S	М	T	W	T	p	s	s	М	T	w	T	F	5
_	5	м	T	w	Ŧ	F	s	8	м	T	w	T	F	5
	5	М	Т	w	T	F	s	s	м	Т	w	T	F	S
	s	М	Т	W	T	F	5	s	М	T	w	Т	F	5
	s	М	Т	w	т	F	s	8	М.	T	w	T	F	S
_	5	м	T	w	T	${\mathfrak p}$	8	s	М	т	w	т	F	3
	5	М	Τ	w	T	F	s	s	м	T	w	T	F	S
	S	М	T	w	T	F	5	5	М	T	w	т	F	s
	5	M	т	w	т	F	5	5	м	T	w	Т	F	5
_	S	M	т	w	T	F	s	s	эм	1	w	T	F	S
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	s	М	T	w	T	F	S	s	м	T	w	т	F	S
	5	м	T	W	T	F	S	s	М	T	w	T	P	S
	5	М	T	w	T	F	8		М	т	w	т	F	s

SPECIFICATIONS

PHYSICAL

 Height:
 5 3/5 inches

 Width:
 7 inches

 Depth:
 5 1/4 inches

 Weight:
 6 lbs. 4 oz.

Shipping Weight: 9 lbs.

Case: Parkerized, Wrinkle Finish

Color: Gray

Power Cord: 6 feet, grounded

FEATURES

Display: Time: 4 Digit, 7 Segment LED

(Red)

Day of Week: individual red LEDs

POWER REQUIREMENTS

Voltage: 115 VAC (220 VAC Optional)

Power: 26.5 Watts Frequency: 50 or 60 Hz

Battery: 9 V Alkaline (not supplied)

POSSIBLE SHOCK HAZARD EXISTS WHEN CASE COVER IS REMOVED AND AC POWER IS CONNECTED. EXERCISE CAUTION WHEN SETTING TIME DISPLAY BECERTAINTO AVOID CONTACTING FOREIGN OBJECTS WITH CIRCUIT BOARDS.