

PLC MULTIPOINT, INC.

LCM-IE
3-channel Version
OPERATION SEQUENCE
JOB# 07P9000
DATE: 11/13/07
REV: 4.0

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1.0 OVERVIEW:

The LCM-IE is a versatile controller. It utilizes the analog input from a Celestial CES style sensor to control multiple lighting tasks. These tasks are composed of various levels, zones, and environments. Timers can be adjusted to suit the types of lamps and ballasts used and the lighting environments. The user-adjustable photo levels allow the system to control various outputs from a single sensor. Override switches are also available when needed for remote override zone control.

1.1 DAYLIGHTING CONTROL FEATURES

1.1.2 Actual foot-candle level sensed displayed

This real-world measure of light is used in IES standards for the standard light levels required for particular tasks. (i.e. 30FC is suggested in a library for easy reading.) The sensor calibrated value is used to set the ON and OFF levels for photo-controlled circuits.

1.1.3 User adjustable set-points

User adjustable set-points allow the user to define the actual light levels at which lighting events occur. The photo-control setup screen will show the actual, current foot-candle level, the high (On-to-Off), and the low (Off-to-On) set points.

1.1.4 Input delays

Input delays (on-to-off) and (off-to-on) allow the user to determine how long a light level must remain in excess of the set-point before a lighting event occurs. This delay prevents transient lighting events such as lightning flashes or dark clouds from affecting the lighting.

1.1.5 Hold-on timer

The hold-on timer is used to guarantee that once an on-state is achieved, the lamps and ballasts will have an adequate on period to avoid degradation of the lamps and ballasts which can considerably reduce the lamp and fixture life. (Typical 30 min HID, 3 min Fluorescent)

1.1.6 Run-time hours displayed

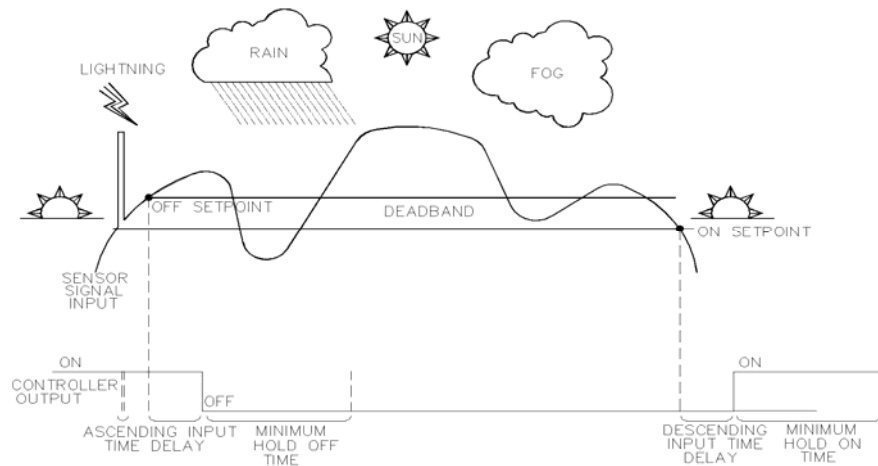
The current accumulated run time hours can be used to schedule a non-obtrusive period for changing lamps. If all lamps are changed at one time the expense is minimized and if these hours are reset upon re-lamping, a regularly scheduled re-lamping based upon operational hours becomes possible.

1.1.7 Time Clock(s)

A seven-day multiple schedule time clock automatically adjusts for daylight savings time. Each time-clock has the potential of fifty unique events. An on-off time takes two events. Unused schedules are set to be off every day of the week. Time schedules can be front panel adjustable.

See Factory Preset section for default Schedules and events.

2.0 PHOTO CONTROL SEQUENCE



Lighting Control Sequence

- **Each controller uses the following control algorithms to provide photo-level control.**
All input changes pass through a user definable one (1) minute time delay to avoid nuisance light level changes due to sudden light level changes caused by headlights, lightening or clouds.
- **Photo-sequence from dark-to-light**
 1. All lamps are on. The light level value is less than the low-limit (On) set point.
 2. As the light level value rises above the high-limit (Off) set point, the input time delay is initiated, after which the high level interposing relay is de-activated.
 3. All lamps are off. The light level value is greater than the high-limit (Off) set point.
- **Photo-sequence from light-to-dark**
 1. All lamps are off. The light level value is greater than the high-limit (Off) set point.
 2. As the light level value falls below the low-limit (On) set point, the input time delay is initiated, after which the low-level interposing relay is turned on.
A *half-hour* hold-on timer is used to avoid HID lamp damage in the event that light levels rise above the high-limit off set-point while the lamps are warming.
 3. All lamps are on. The light level value is less than the low-value (On) set point.

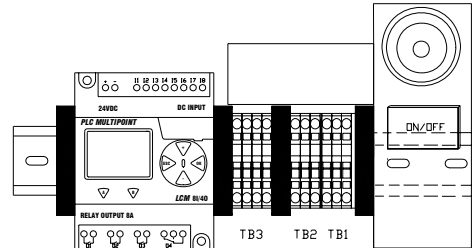
The program and set points are stored in flash. Real time clock settings are battery protected for up to 10 years. The program resumes operation after a power outage.

3.0 COMPONENTS

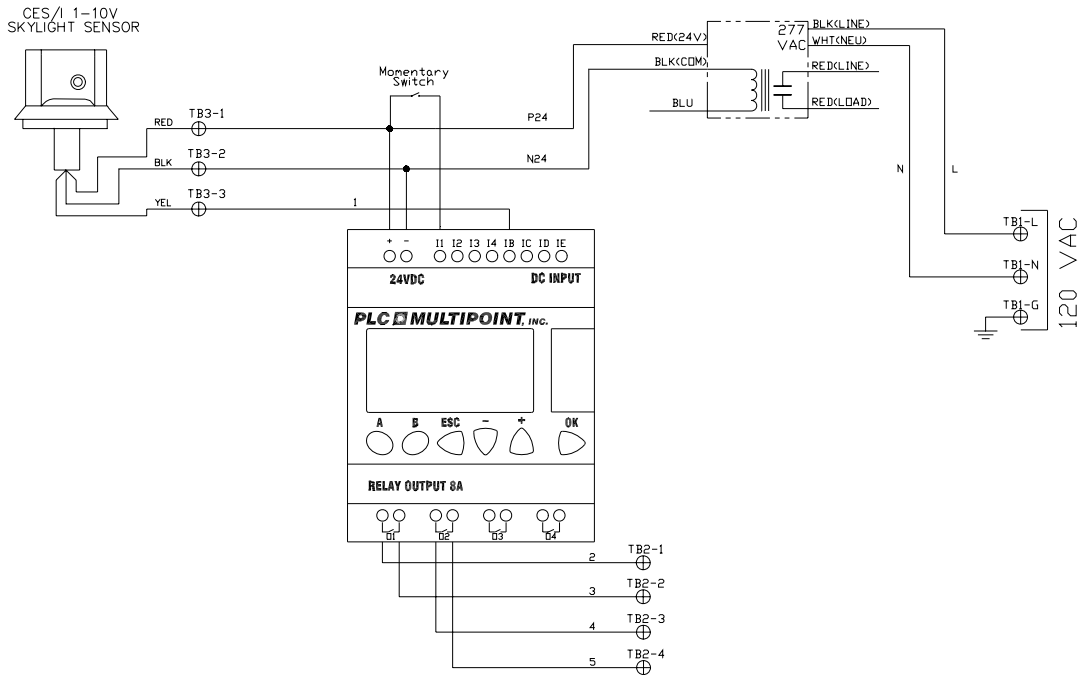
The LCM Index CD12 system is mounted on a DIN rail for the purpose of customer demonstration.

3.1 SYSTEM COMPONENTS

The LCM Index CD12 system consists of a 120VAC power pack, CES outdoor 1-10 photo sensor, remote switch, PLC and terminal blocks.



| | | |
|-------|---------------|------------------|
| TB1-L | 120 VAC | Line |
| TB1-G | 120 VAC | Ground |
| TB1-N | 120 VAC | Neutral |
| TB2-1 | NO-C1 | Relay 1 common |
| TB2-2 | NO-1 Output | Relay output |
| TB2-3 | NO-C2 | Relay 2 common |
| TB2-4 | NO-2 Output | Relay output |
| TB3-1 | Sensor Red | P24 (+24vdc) |
| TB3-2 | Sensor Black | N24 (common) |
| TB3-3 | Sensor Yellow | Signal (1-10vdc) |



4.0 SCREEN CONTROLS AND MODES

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| | (A) Key is used in specific screens to toggle settings. |
| | (B) Key is used to navigate through the various display and setting screens. |
| | (OK) This key is used to select a variable for modification in SELECT mode and is used to confirm the value changes in ADJUST mode. |
| | (ESC) Key is used to cancel value changes in ADJUSTMENT mode. |
| | (+) & (-) These keys are used to move to a variable on the current screen for modification in SELECT mode and used to increment or decrement values in ADJUSTMENT mode. |

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| <p>SELECT MODE (BLINK) A blink alternation as shown to the right indicates the variable that can be changed. In this mode the (+) and (-) keys are used to move among the adjustable variables. The screen alternates or blinks from a text block to a solid block. Only adjustable values will blink. Press and HOLDING (OK) selects the variable to be changed, putting the display into ADJUSTMENT mode.</p> | | |
|--|--|--|

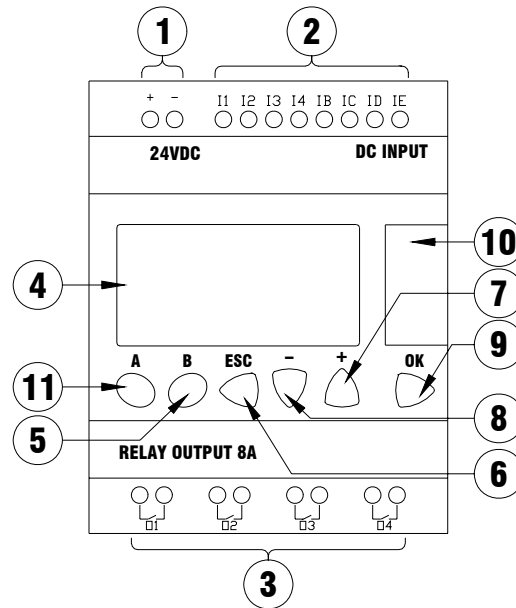
| | | |
|---|--|--|
| <p>ADJUSTMENT MODE (FLASH) A flash alternation as shown to the right will flash from a dark text block to a blank block, indicating that the selected value is ready to be changed. Only a selected adjustable value will flash. In this mode the (+) and (-) keys are used to increase and decrease adjustable variables. Press and HOLDING (OK) confirms the variable change, putting the display back into SELECT mode.</p> | | |
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5.0 LCM CONTROLLER

The LCM-IE controller has a LCD display that displays the current status of the system. The up and down arrows are used to navigate menus. The + and - keys increment and decrement values. The ESC key and OK key are used to abort or confirm menu selections. The LCM has multiple screens, use the (B) key to page between screens. The last display wraps around to the first display. Refer to section 4 (*Screen Control and Modes*) for information regarding menu selection changes.

6.0 LCM CONFIGURATION

The LCM-IE has an operator interface allows several modes of operation through the use of up, down, left and right arrows and plus and minus keys. Information is shown on a 18x4-line Liquid Crystal Display. The menu system allows for selection current system status, operating parameter review and editing, as well as sensor scaling.



Set point adjustment example, Refer to Figure 1.

Task: Increase the HiLim setpoint value for Zone 1.

- 1) Press “B” (5) until the Zone 1 Sen1FC screen is displayed.
- 2) Press “+” (7) until the HiLim setting “BLINKS”
- 3) Press “OK” (9) and hold for about a second, the HiLim register should now be in flash mode.
- 4) Press “+” (7) to increase the limit and “-” (8) to reduce it.
- 5) Once the HiLim setting is adjusted, press “OK” (9) and hold for about a second. The HiLim register should now be back in blink mode.

NOTE: If the HiLim register does not return to the “BLINK” mode or if “ESC” (6) is pushed, The change will not be recorded in the controller

7.0 CONTROLLER STATUS SCREENS

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| <pre> P L C - M U L T I P O I N T I n c L C M - I E R e v 3 . 0 0 5 / 2 4 / 0 7 0 8 : 2 3 </pre> | <p>Main Status Screen</p> <p>Press the (ESC) button at any time to access this screen. The job number may be shown on the top line. The date and time is adjustable due to the various time zones the system may be distributed to.</p> <p>The unit will automatically adjust for daylight savings time and can be set back to standard time.</p> |
| <pre> P H O T O L E V E L Z O N E 1 S e n s o r F C 0 0 1 3 0 H i L i m - O f f 0 0 0 5 0 L o L i m - O n 0 0 0 3 0 </pre> | <p>Photo Level settings for Zone 1.</p> <p>Press the (ESC) and continue to press the (B) button until the Photo screens are reached.</p> <p>SensFC is the current light level Seen by the sensor HiLim is the OFF set-point from low to high light levels. LoLim is the ON set-point from high to low light levels.</p> <p>Note: A negative SensFC indicates a signal problem.</p> |
| <pre> P H O T O L E V E L Z O N E 2 S e n s o r F C 0 0 1 3 0 H i L i m - O f f 0 0 0 5 0 L o L i m - O n 0 0 0 3 0 </pre> | <p>Photo Level settings for Zone 2.</p> <p>Press the (ESC) and continue to press the (B) button until the Photo screens are reached.</p> <p>SensFC is the current light level Seen by the sensor HiLim is the OFF set-point from low to high light levels. LoLim is the ON set-point from high to low light levels.</p> <p>Note: A negative SensFC indicates a signal problem.</p> |
| <pre> P H O T O L E V E L Z O N E 3 S e n s o r F C 0 0 1 3 0 H i L i m - O f f 0 0 0 5 0 L o L i m - O n 0 0 0 3 0 </pre> | <p>Photo Level settings for Zone 3.</p> <p>Press the (ESC) and continue to press the (B) button until the Photo screens are reached.</p> <p>SensFC is the current light level Seen by the sensor HiLim is the OFF set-point from low to high light levels. LoLim is the ON set-point from high to low light levels.</p> <p>Note: A negative SensFC indicates a signal problem.</p> |

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| <pre style="font-family: monospace; font-size: 1.2em;"> Z O N E R U N T I M E 1 H o u r s : 0 0 0 0 0 2 H o u r s : 0 0 0 0 0 3 H o u r s : 0 0 0 0 0 </pre> | <p>Zone Run Time Hours Screen Press the (ESC) and then press the (A) button. This screen displays the run hours accumulated on all zones. The run hour range is from 0 to 32767.</p> <p>To reset the run hours, press the (-) button to move the cursor over the selected zone. Press and hold the (OK) button for 1 sec to change to edit mode. Press (+) or (-) buttons to adjust value. Press the (OK) button to accept the change.</p> |
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8.0 CONTROLLER ZONE CONFIGURATION MODE SCREEN

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| <pre style="font-family: monospace; font-size: 1.2em;"> Z O N E C O N F I G U R A T I O N 1 C o d e : 0 0 0 0 3 2 C o d e : 0 0 0 0 7 3 C o d e : 0 0 0 1 5 </pre> | <p>Zone Configuration Mode Screen</p> <p>The LCM configuration numbers are the result of specific system input and outputs requirements. Refer to the chart in last section of this document to determine the number.</p> <p>Press the (-) button to move the cursor over the selected zone. Press and hold the (OK) button for 1 sec to change to edit mode. Press (+) or (-) buttons to adjust the number. Press the (OK) button to accept the change.</p> |
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| <pre style="font-family: monospace; font-size: 1.2em;"> P H O T O M O D E : A U T O (A) - S E T U P (B) - N e x t P a g e </pre> | <p>Photo Mode Screen. (Default=AUTO) (For Troubleshooting Purposes, Only)</p> <p>Press the (B) button until the Mode screen is reached.</p> <p>Pressing key A will change the mode to SETUP or AUTO. Pressing key B will continue to the next screen.</p> <p>SETUP mode will bypass all the photo delays and allow a fast photo sensor response from input to output.</p> |
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9.0 CONTROLLER INPUT / OUTPUT SCREEN

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| <pre style="font-family: monospace; font-size: 1.2em;"> 1 2 3 4 B C D E 1 2 3 4 0 9 : 4 5 </pre> | <p>Controller Input / Output Screen</p> <p>Press the (ESC) button and HOLD. (For Troubleshooting Purposes, Only)</p> <p>This screen displays the controller I/O status.</p> <p>The top row shows the controller switch inputs. The lower left numbers show the controller output relay status. If an input or output is ON the number is highlighted.</p> |
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10.0 TIME SCHEDULE SETTINGS (Built in Menus)

ENTERING THE MENU SCREENS

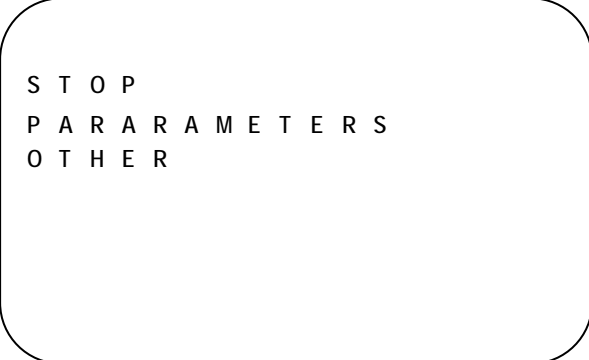
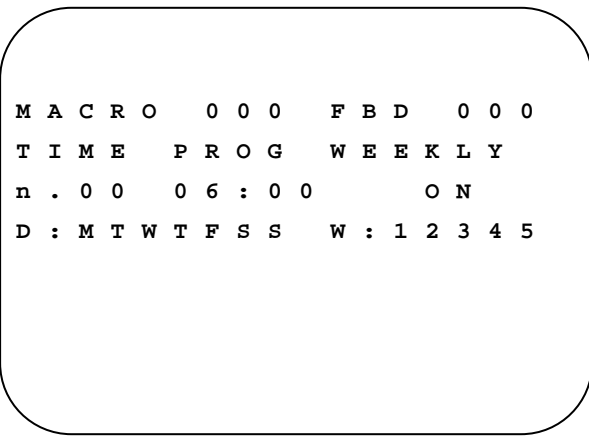
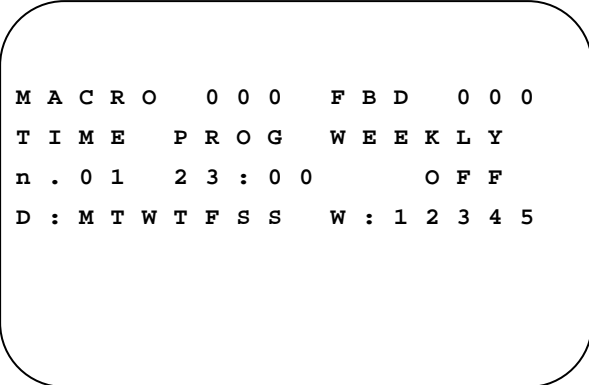


Pressing **(ESC)** And **(OK)** at the same time enters the controller function control screens.

SETTING THE REAL-TIME CLOCK:

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| <p>S T O P P A R A M E T E R S M I S C E L L A N E O U S</p> | <p>LCM MENU SCREEN CONTROL SCREEN</p> <p><u>To Set the clock:</u></p> <p>Move the cursor to MISCELLANEOUS by pressing (+), then press (OK).</p> |
| <p>V E R S I O N C L O C K F A U L T</p> | <p>LCM MENU SCREEN CONTROL SCREEN</p> <p>Move the cursor to CLOCK by pressing (-), then press (OK).</p> |
| <p>D A T E / H O U R S E T U P S U M M E R T I M E S E T U P</p> | <p>LCM MENU SCREEN CONTROL SCREEN</p> <p>Move the cursor to DATE / HOUR SETUP and press (OK).</p> |
| <p>D A T E W E D N E S D A Y A U G U S T 3 0 2 0 0 6 2 1 : 5 8 0 0 C A L I B R A T . : + 0 0 S / W E E</p> | <p>LCM MENU SCREEN CLOCK</p> <p>Use (+) or (-) to move to the desired field. Press and hold (OK) for 1 sec to change to edit mode. Press (+) or (-) to adjust value. Press (OK) To accept change. Repeat until set.</p> <p>Press (ESC) to go back to the control screen. Press (ESC) again to go back to the previous screens.</p> |

11.0 SETTING THE TIME CLOCK SCHEDULES

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|  <p>S T O P P A R A M E T E R S O T H E R</p> | <p align="center">LCM MENU SCREEN CONTROL SCREEN</p> <p><u>To Set the time clock schedules:</u></p> <p>Move cursor to PARAMETERS by pressing (←), then press (OK).</p> |
|  <p>M A C R O 0 0 0 F B D 0 0 0 T I M E P R O G W E E K L Y n . 0 0 0 6 : 0 0 O N D : M T W T F S S W : 1 2 3 4 5</p> | <p align="center">LCM MENU SCREEN CLOCK SCHEDULE (ON)</p> <p>FBD: 000 (Function Block Diagram): Time Clock number. n.00: Schedule event number (MAX (14)). Event hour and minutes: 11pm= 23H00. D: Day of the week the schedule applies to, (Mon...Sun). W: 12345: The week of the month the schedule applies to. ON: Indicator for ON or OFF clock event.</p> <p>=====</p> <p>FBD 000: Clock for Zone 1 outputs. n00: Schedule On event, even numbers = On event. n01: Schedule Off event, odd numbers = Off event.</p> |
|  <p>M A C R O 0 0 0 F B D 0 0 0 T I M E P R O G W E E K L Y n . 0 1 2 3 : 0 0 O F F D : M T W T F S S W : 1 2 3 4 5</p> | <p align="center">LCM MENU SCREEN CLOCK SCHEDULE (OFF)</p> <p>Use (+) or (-) to move to the desired field. Press and hold (OK) for 1 sec to change to edit mode. Press (+) or (-) to adjust value. Press (OK) To accept change. Repeat until set.</p> <p>Press (ESC) to go back to the control screen. Press (ESC) again to go back to the previous screens.</p> |

12.0 SETTING IN-DELAY AND HOLD-ON DELAY TIMERS

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| <p>S T O P P A R A M E T E R S O T H E R</p> | <p>LCM MENU SCREEN CONTROL SCREEN</p> <p><u>To Set the Delay Timers:</u></p> <p>Press (ESC) and (OK) at the same time to enter the controller function control screens.</p> <p>Move cursor to PARAMETERS by pressing (-), then press (OK).</p> |
| <p>M A C R O 0 0 5 F B D 0 0 2 T I M E R B / H p u l s e d u r a t i o n 1 8 0 0 0</p> | <p>LCM MENU SCREEN HOLD TIMER</p> <p>Use (+) or (-) to move to the FBD field. Press and hold (OK) for 1 sec to change to edit mode. Press (+) or (-) to adjust value. Press (OK) To accept change. Repeat until set.</p> <p>Macro 005, FBD 002: Zone 1 Hold Timer. Timer B/H: Timer type. Pulse duration in 0.1 seconds. (18000 x 0.1 seconds = 30 minutes) Example: To change to 5 minutes, set value to 3000.</p> |
| <p>M A C R O 0 0 5 F B D 0 0 3 T I M E R A / C o n d e l a y 0 3 0 0 0</p> | <p>LCM MENU SCREEN IN-DELAY TIMER</p> <p>Use (+) or (-) to move to the FBD field. Press and hold (OK) for 1 sec to change to edit mode. Press (+) or (-) to adjust value. Press (OK) To accept change. Repeat until set.</p> <p>Macro 005, FBD 003: In-Delay On/Off Timer (2 separate delays). Timer A/C: Timer type. Pulse duration in 0.1 seconds. (03000 x 0.1 seconds = 5 minutes)</p> |

Zone 1: **Hold-On** Delay = Macro 005, FBD 002, **In-Delay**, On/Off = Macro 005, FBD 003.

Zone 2: **Hold-On** Delay = Macro 006, FBD 002, **In-Delay**, On/Off = Macro 005, FBD 003.

Zone 3: **Hold-On** Delay = Macro 007, FBD 002, **In-Delay**, On/Off = Macro 005, FBD 003.

NOTE: The Hold-On delay timer starts the moment the corresponding output goes high and forces the output high for the duration. After the hold-on duration has expired and subsequent photo levels command the output off, the In-Delay off time period controls the output hold-on delay time.

13.0 SETTING WARNING, SWEEP AND GRACE TIMERS

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|--|---|
| <p>S T O P P A R A M E T E R S O T H E R</p> | <p>LCM MENU SCREEN CONTROL SCREEN</p> <p><u>To Set the Delay Timers:</u></p> <p>Press (ESC) and (OK) at the same time to enter the controller function control screens.</p> <p>Move cursor to PARAMETERS by pressing (-), then press (OK).</p> |
| <p>M A C R O 0 0 9 F B D 0 0 2 P R E S E T H - M E T E R h o u r s e t p o i n t 0 0 0 0 1</p> | <p>LCM MENU SCREEN SWEEP TIMER</p> <p>Use (+) or (-) to move to the FBD field. Press and hold (OK) for 1 sec to change to edit mode. Press (+) or (-) to adjust value. Press (OK) To accept change. Repeat until set. Macro 009, FBD 002: Zone 1 Sweep Timer. (2 separate delays). Hour Setpoint: 1</p> |
| <p>M A C R O 0 0 9 F B D 0 0 2 P R E S E T H - M E T E R m i n u t e s e t p o i n t 0 0 0 5 0</p> | <p>LCM MENU SCREEN SWEEP TIMER</p> <p>Use (+) or (-) to move to the FBD field. Press and hold (OK) for 1 sec to change to edit mode. Press (+) or (-) to adjust value. Press (OK) To accept change. Repeat until set. Macro 009, FBD 002: Zone 1 Sweep Timer. (2 separate delays). Minute Setpoint: 50</p> |

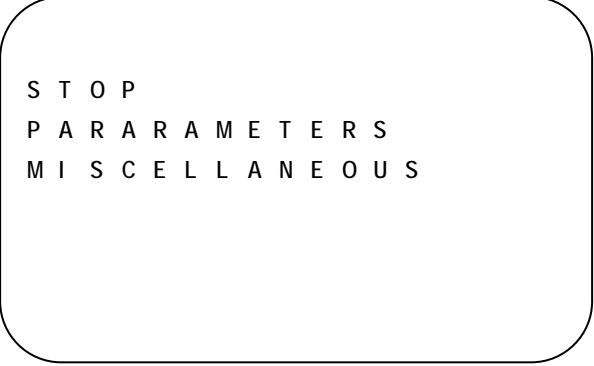
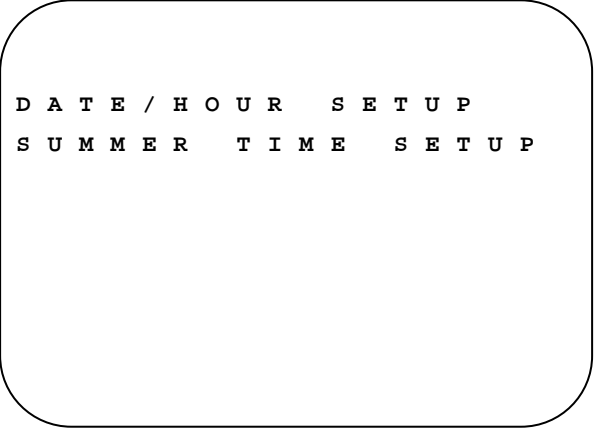
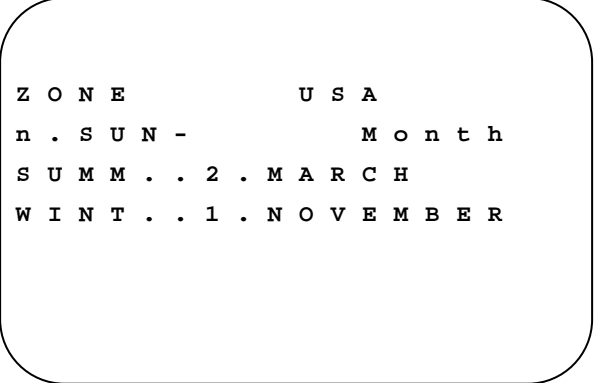
Zone 1: **Warning:** Macro 009, FBD 029, **Sweep:** Macro 009, FBD 002, **Grace:** Macro 009, FBD 000.
Zone 2: **Warning:** Macro 013, FBD 029, **Sweep:** Macro 013, FBD 002, **Grace:** Macro 013, FBD 000.
Zone 3: **Warning:** Macro 015, FBD 029, **Sweep:** Macro 015, FBD 002, **Grace:** Macro 015, FBD 000.

14.0 SETTING MODE 9 OVERRIDE DELAY TIMER

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| <p>S T O P P A R A M E T E R S O T H E R</p> | <p>LCM MENU SCREEN CONTROL SCREEN</p> <p><u>To Set the Delay Timers:</u></p> <p>Press (ESC) and (OK) at the same time to enter the controller function control screens.</p> <p>Move cursor to PARAMETERS by pressing (←), then press (OK).</p> |
| <p>M A C R O 0 0 0 F B D 1 6 3 T I M E R B / H p u l s e d u r a t i o n 1 8 0 0 0</p> | <p>LCM MENU SCREEN MODE 13 OVR TIMER</p> <p>Use (+) or (−) to move to the FBD field. Press and hold (OK) for 1 sec to change to edit mode. Press (+) or (−) to adjust value. Press (OK) To accept change. Repeat until set.</p> <p>FBD 163: Zone 1 Mode 9 OVR Timer. Timer B/H: Timer type. Pulse duration in 0.1 seconds. (18000 x 0.1 seconds = 30 minutes)</p> |

Zone 1: **Mode 9 Override**, FBD 163.
Zone 2: **Mode 9 Override**, FBD 164.
Zone 3: **Mode 9 Override**, FBD 165.

15.0 SETTING DAYLIGHT SAVINGS TIME

| | |
|--|---|
|  <p>S T O P P A R A M E T E R S M I S C E L L A N E O U S</p> | <p>LCM MENU SCREEN CONTROL SCREEN</p> <p><u>To Set the time clock schedules:</u></p> <p>Move the cursor to MISCELLANEOUS by pressing (+), then press (OK).</p> |
|  <p>D A T E / H O U R S E T U P S U M M E R T I M E S E T U P</p> | <p>LCM MENU SCREEN DAYLIGHT SAVINGS TIME</p> <p>Select SUMMER TIME SETUP, then press (OK).</p> |
|  <p>Z O N E U S A n . S U N - M o n t h S U M M . . 2 . M A R C H W I N T . . 1 . N O V E M B E R</p> | <p>LCM MENU SCREEN DAYLIGHT SAVINGS TIME</p> <p>Use (+) or (-) to move to the desired field. Press and hold (OK) for 1 sec to change to edit mode. Press (+) or (-) to adjust value. Press (OK) To accept change. Repeat until set.</p> <p>Press (ESC) to go back to the control screen. Press (ESC) again to go back to the previous screens.</p> |

16.0 FACTORY PRESETS

| ZONE/LEVEL 1 TITLE | Zone 1 |
|---------------------------|---------------------------|
| OFF LIMIT (HiLim) | 50 FC |
| ON LIMIT (LoLim) | 30 FC |
| IN DELAY | 5 MIN |
| HOLD-ON | 30 MIN |
| TIME CLOCK | FDB:000 TC1 |
| SWEEP PERIOD | 1 hr 50 min |
| GRACE PERIOD | 10 min |
| WARNING PERIOD | single 3 sec Flash |

| ZONE/LEVEL 2 TITLE | Zone 2 |
|---------------------------|---------------------------|
| OFF LIMIT (HiLim) | 50 FC |
| ON LIMIT (LoLim) | 30 FC |
| IN DELAY | 5 MIN |
| HOLD-ON | 30 MIN |
| TIME CLOCK | FDB:001 TC2 |
| SWEEP PERIOD | 1 hr 50 min |
| GRACE PERIOD | 10 min |
| WARNING PERIOD | single 3 sec Flash |

| ZONE/LEVEL 3 TITLE | Zone 3 |
|---------------------------|---------------------------|
| OFF LIMIT (HiLim) | 50 FC |
| ON LIMIT (LoLim) | 50 FC |
| IN DELAY | 5 MIN |
| HOLD-ON | 30 MIN |
| TIME CLOCK | FDB:002 TC3 |
| SWEEP PERIOD | 1 hr 50 min |
| GRACE PERIOD | 10 min |
| WARNING PERIOD | single 3 sec Flash |

17.0 FACTORY PRESET SCHEDULES

Time Clock (TC1- TC3) presets are set the same. The default is set to a maximum of 14 schedule events which is a single on/off event for each day of the week.

This default setting produces a 24/7 always on time clock scheme.

| Schedule 1 | | | Schedule 2 | | |
|--------------|---------|--|---------------|-----|--|
| Monday On | 6:00 AM | | Monday Off | n/a | |
| Tuesday On | 6:00 AM | | Tuesday Off | n/a | |
| Wednesday On | 6:00 AM | | Wednesday Off | n/a | |
| Thursday On | 6:00 AM | | Thursday Off | n/a | |
| Friday On | 6:00 AM | | Friday Off | n/a | |
| Saturday On | 6:00 AM | | Saturday Off | n/a | |
| Sunday On | 6:00 AM | | Sunday Off | n/a | |

| Schedule 3 | | | Schedule 4 | | |
|--------------|-----|--|---------------|-----|--|
| Monday On | n/a | | Monday Off | n/a | |
| Tuesday On | n/a | | Tuesday Off | n/a | |
| Wednesday On | n/a | | Wednesday Off | n/a | |
| Thursday On | n/a | | Thursday Off | n/a | |
| Friday On | n/a | | Friday Off | n/a | |
| Saturday On | n/a | | Saturday Off | n/a | |
| Sunday On | n/a | | Sunday Off | n/a | |

| Schedule 5 | | | Schedule 6 | | |
|--------------|-----|--|---------------|-----|--|
| Monday On | n/a | | Monday Off | n/a | |
| Tuesday On | n/a | | Tuesday Off | n/a | |
| Wednesday On | n/a | | Wednesday Off | n/a | |
| Thursday On | n/a | | Thursday Off | n/a | |
| Friday On | n/a | | Friday Off | n/a | |
| Saturday On | n/a | | Saturday Off | n/a | |
| Sunday On | n/a | | Sunday Off | n/a | |

18.0 LCM-IE CONFIGURATION GUIDE

| No. | Mode | Description | Priority |
|------------|---------------|-----------------------------------|--|
| 1 | PC | Photo Control Only | PC. |
| 2 | TC | Time Clock Only | TC. |
| 3 | PC+TC | Photo Control and Time Clock | PC or TC. |
| 6 | TC+RSW | Time Clock and Switch | TC. |
| 7 | PC+TC+RSW | Photo, Time Clock and Switch | Switch must initiate start of the PC+TC sequence. Switch priority On/Off when PC is On only. |
| 9 | PC+RSW+OVR | Photo, Switch and Override | PC, Switch On/Off, with PC Off 30min OVR. OVR time is programmable. TC is On 24/7. |
| 14 | TC+RSW+SWP | Time Clock, Switch and Sweep | TC, Switch On/Off with after hours sweep. |
| 15 | PC+TC+RSW+SWP | Photo, Time Clock, Switch & Sweep | Switch must initiate start of the PC+TC sequence. Switch priority On/Off when PC is On only. Warning flash, sweep and grace after hours. |

Note: *Zones 1-3 have independent control,
When PC is not selected the input should be disconnected.
Low light = PC On*