PROGRAMMING INSTRUCTIONS

Please read all 3 steps before programming

1. Enter a programming function by pressing button the number of times as the desired function number from the tables below (e.g., press twice for function 2, occupancy time delay).

2. LED will flash back the selected function's current setting (e.g., 5 flashes for 10 minute time delay). To change setting, proceed to step 3 before flash back sequence repeats 3 times. To exit the current function or to change to a different function, wait for sequence to repeat 3 times then return to step 1.

3. Press button the number of times indicated in the particular function's detailed table for the NEW desired setting (e.g., press 3 times for 5 min). As confirmation of setting change, LED flashes back the NEW setting 3 times before exiting.

PROGRAMMING FUNCTIONS

		STD. UNIT	OPTIONS P	OPTIONS ADC	OPTIONS D
2	Occupancy Time Delay	•	•	•	•
3	Dim to Off Time Delay			•	•
4	Test Mode & 100 hr Burn-In	•	•	•	•
4	Auto Set-Point		•	•	
5	Ten's Digit of Set-Point		•	•	
6	One's Digit of Set-Point		•	•	
7	Sunlight Discount Factor		•	•	
8	Incremental Set-Point Adjust.		•	•	
10	Minimum On Time	•	•	•	•
11	Photocell Mode		•	•	
12	Dual Tech. (Microphonics™)[1]	•	•		•
14	Lamp Information	•	•		•
15	Dimming Range (High Trim)			•	•
16	Dimming Range (Low Trim)			•	•

[1] **PDT SENSORS ONLY**

DETAILED FUNCTION TABLES

2 = Occupancy Time Delay

1	30 sec	4	7.5 min**	7	15.0 min
2	2.5 min	5	10.0 min*	8	17.5 min
3	5.0 min	6	12.5 min	9	20.0 min

3 = Dim to Off Time Delay

1	30 sec	4	7.5 min	7	15.0 min	10	0 sec
2	2.5 min**	5	10.0 min	8	17.5 min	11	Infinite
3	5.0 min	6	12.5 min	9	20.0 min		

4 = Test Mode / 100hr Burn-In / Auto Set-Point

1	Normal*	4	Run Auto Set-Point
2	Run 100 hr Burn-In	5	Blink back Set-Point [2]
3	Run 100 hr then Auto-Setpoint	6	Test Mode [3]

[2] The LED will blink back the ten's digit, then pause, then blink back the one's digit. For a "0" the LED will blink very rapidly. The sequence is repeated 3 times.

[3] Test Mode will disable Minimum On Time, set Occupancy Time Delay to 30 sec, and shorten all photocell transitions and dimming rates. Mode will expire after 10 min or if function 4 is set back to Normal.

5 = Ten's Digit of Set-Point

1	10 fc	4	40 fc	7	200 fc
2	20 fc	5	50 fc	8	Disable
3	30 fc	6	100 fc	10	0 fc*

6 = One's Digit of Set-Point

1	1 fc	4	4 fc	7	7 fc	10	0 fc
2	2 fc	5	5 fc*	8	8 fc		
3	3 fc	6	6 fc	9	9 fc		

7 = Sunlight Discount Factor

1	x/1***	4	x/4*	7	x/7	10	x/10
2	x/2	5	x/5	8	x/8		
3	x/3	6	x/6	9	x/9		

8 = Incremental Set-Point Adjustment

1	Decrease 1 fc	2	Increase 1 fc

10 = Minimum On Time

1	0 min*	3	30 min	5	60 min
2	15 min	4	45 min		

11 = Photocell Mode

P Option:	1 Full On/Off Ctrl*	2 Inhibit Only Ctrl	
ADC Option:	1 Normal**	2 Dim Only (No Off)	

12 = Dual Technology (Microphonics™)

1 Normal*	2 Off	3 Medium	4 Low

14 = Lamp Information

1	Enable LampMaximizer+
2	Disable LampMaximizer+*
3	Total Switches / 1000 [4]
4	Total Time On (khrs) [4]
5	Reset Total Switch and Total Time On Statistics
6	Reset LampMaximizer+ Value

[4] The LED will blink back a two digit value; the first digit, then pause, then blink back the second digit. For a "0" the LED will blink rapidly.

15 = Dimming Range (High Trim)

1	Off	4	3 Volts	7	6 Volts	10	9 Volts
2	1 Volt	5	4 Volts	8	7 Volts	11	10 Volts*
3	2 Volts	6	5 Volts	9	8 Volts		

16 = Dimming Range (Low Trim)

1	Off	4	3 Volts	7	6 Volts	10	9 Volts
2	1 Volt*	5	4 Volts	8	7 Volts	11	10 Volts
3	2 Volts	6	5 Volts	9	8 Volts		

* DEFAULT SETTING
** SPECIAL DEFAULT SETTING FOR -ADC, -D UNITS
*** SPECIAL DEFAULT SETTING FOR CM(R)B 6, CM(R)B 50, CM(R) 6, RM(R) 6, RM(R) 50, SB(R) 6, & SB(R) 50 SERIES UNITS

FUNCTION DEFINITIONS

2 OCCUPANCY TIME DELAY
The length of time an occupancy sensor will keep the lights on and at full bright after it last detects occupancy (assuming minimum on time has been met)

3 DIM TO OFF TIME
An extended length of time after the occupancy time delay has expired that a sensor will first reduce lighting to the low dimming range setting before turning completely off

4 100 HOUR BURN-IN / AUTO SET-POINT

TEST MODE
Disables Minimum On Time, sets Occupancy Time Delay to 30 sec, and shortens all photocell transition and dimming rates. Mode will expire after 10 min or if function 4 is set back to Normal.

100 HOUR BURN-IN
Overrides relay on and/or dimming output to full bright (typically for lamp seasoning)

AUTO SET-POINT
Photocell calibration procedure for detecting optimum lighting control level

5 TEN'S DIGIT OF SET-POINT
The ten's digit of the target light level that is to be maintained by the device (in foot-candles)

6 ONE'S DIGIT OF SET-POINT
The one's digit of the target light level that is to be maintained by the device (in foot-candles)

7 SUNLIGHT DISCOUNT FACTOR
Value used to improve the tracking accuracy of a photocell during periods of high daylight. Decreasing the value will lower the controlled level of the lights

8 INCREMENTAL SET-POINT ADJUSTMENT
Alters the target light level that is to be maintained by the device (in foot-candles)

10 MINIMUM ON TIME
The length of time required for lamps to be on in order to prevent all short cycling that shortens lamp life. If occupancy time delay expires prior to minimum on time being satisfied, the lamps will remain on until time has been met.

11 PHOTOCELL MODE
Indicates a photocell sensor's method of operation. One mode enables the sensor to turn the lights both on and off, while the other mode can only inhibit the lights from turning on. For dimming sensors, this mode determines whether lighting will switch completely off or stop at the full dim level.

12 DUAL TECHNOLOGY (MICROPHONICS™)
A second method of occupancy detection that allows the sensor to hear occupants

14 LAMP INFORMATION

LAMPMAXIMIXER+ (Enable/Disable)
Advanced operating mode where occupancy time delay adjustments are automatically made every two weeks. The time delay is adjusted according to an algorithm that determines the optimum time delay in order to maximize both lamp life and energy savings.

TOTAL SWITCHES
The current count (in 1000's) of the number of off to on cycles since sensor installation (or since count was manually reset)

TOTAL RUN-TIME
The current elapsed time (in 1000's of hrs) a controlled lamp has been on since sensor was installed (or since count was manually reset)

RESET LAMPMAXIMIZER+
Method of clearing the sensor's historical occupancy information such that if a sensor is phycially moved, only new occupancy information will influence LampMaximizer+ results

15 DIMMING RANGE (HIGH TRIM)
The maximum output level (0-10 VDC) of a sensor with a dimming output

16 DIMMING RANGE (LOW TRIM)
The minimum output level (0-10 VDC) of a sensor with a dimming output

NOTE:

For information on additional advanced settings, including resetting unit to factory defaults, contact:

Technical Support: 1.800.535.2465

OCCUPANCY SENSOR
PROGRAMMING INSTRUCTIONS

AcuityControls

Sensor Switch™

1.800.535.2465