

## 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	ADC	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™) <sup>1</sup>	•	•	•	•
14 Lamp Information	•	•		•
15 Dimming Range (High Trim)			•	•
16 Dimming Range (Low Trim)			•	•

<sup>1</sup> 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 <sup>2</sup>
3	Run 100 hr then Auto-Setpoint	6	Test Mode <sup>3</sup>

<sup>2</sup>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.

<sup>3</sup>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
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### 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
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### 14 = Lamp Information

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

<sup>4</sup>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 PHOTOCCELL 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

#### LAMPMAXIMIZER+ (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 physically 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**