AcuityControls

nLight®

PHOTOCELL SENSOR
PROGRAMMING
INSTRUCTIONS

1.800.535.2465

FUNCTION DEFINITIONS

4 100 HOUR BURN-IN / AUTO SET-POINT

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)

11 DUAL ZONE PHOTOCELL MODES

STEPPED DIMMING (DUO) MODE
Dual Zone photocell mode where the appropriate on/off combination of the two associated relays is maintained in order to always meet the photocell set-point requirements

STEPPED DIMMING (DUO) MODE - NEVER OFF
Dual Zone photocell mode where the appropriate on/off combination of the two associated relays (except both off) is maintained in order to always meet the photocell set-point requirements.

DUAL ZONE OFFSET MODE
Dual Zone photocell mode where Zone 2's set-point is a selected percentage higher than Zones 1's set-point

DUAL ZONE FAN MODE
Dual Zone photocell mode where Zone 2's photocell control is disabled

15 PHOTOCELL DIMMING RANGE (HIGH)
The maximum output level (0-10 VDC) up to which an automatic dimming photocell will control

16 PHOTOCELL DIMMING RANGE (LOW)
The minimum output level (0-10 VDC) down to which an automatic dimming photocell will control

17 DUAL ZONE OFFSET
Fixed voltage increase of Zone 2's dimming output from Zone 1's dimming output (-ADC-DZ and -PC-ADC-DZ models only)

18 DUAL ZONE OFF-POINT
Zone 2's set-point as a percentage of Zones 1's set-point (-PC-DZ and -PC-ADC-DZ models only).

21 PHOTOCELL TRANSITION OFF TIME
The time period for which a photocell must measure a light level above the set-point before it will turn the lights off

22 PHOTOCELL TRANSITION ON TIME
The time period for which a photocell must measure a light level below the set-point before it will initiate the lights on

NOTE:

Additional settings can be configured via ***SensorView*** software.

DETAILED FUNCTION TABLES

4 = 100 Hour Burn-In / Auto Set-Point

1	Disabled*
2	Enabled
3	Enabled then run Auto-Setpoint
4	Run Auto Set-Point
5	Blink back Set-Point[1]

[1] 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.

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

11 = Dual Zone Photocell Mode

1	Stepped Dimming (DUO) Mode*
2	Stepped Dimming (DUO) - Never Off
3	Dual Zone Offset Mode
4	Dual Zone Fan Mode

15 = Photocell Dimming Range (High)

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 = Photocell Dimming Range (Low)

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		

17 = Dual Zone Offset

1	-10 Volts	**7**	-4 Volts	**13**	2 Volts	**19**	8 Volts
2	-9 Volts	**8**	-3 Volts	**14**	3 Volts	**20**	9 Volts
3	-8 Volts	**9**	-2 Volts	**15**	4 Volts	**21**	10 Volts
4	-7 Volts*	**10**	-1 Volt	**16**	5 Volts		
5	-6 Volts	**11**	0 Volts	**17**	6 Volts		
6	-5 Volts	**12**	1 Volt	**18**	7 Volts		

18 = Dual Zone Offset

1	110%	**4**	140%	**7**	170%	**10**	200%
2	120%	**5**	150%*	**8**	180%		
3	130%	**6**	160%	**9**	190%		

21 = Photocell Transition Off Time

1	45 sec	**3**	5 min*	**5**	15 min	**7**	25 min
2	2 min	**4**	10 min	**6**	20 min		

22 = Photocell Transition On Time

1	45 sec*	**3**	5 min	**5**	15 min	**7**	25 min
2	2 min	**4**	10 min	**6**	20 min		

*** DEFAULT SETTING ** ADC DEFAULT**

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PROGRAMMING INSTRUCTIONS

Please read all 3 steps before programming

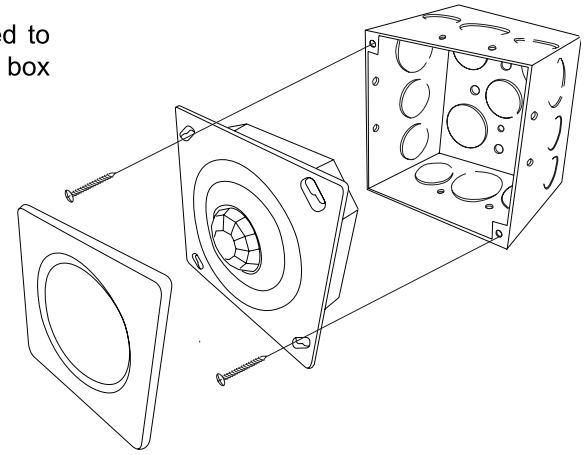
1. Enter a programming function by pressing button the number of times as the desired function number from the tables below (e.g., press twice for function 2, time delay).
2. LED will flash back the selected function's current setting (e.g., 5 flashes for 10 minute time delay). To change setting, proceed 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.

FUNCTIONS		PC	ADC	DZ
4	100 Hour Burn-In / 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 Adjustment	•	•	
11	Dual Zone Photocell Mode			•
15	Photocell Dimming Range (High)		•	
16	Photocell Dimming Range (Low)		•	
17	Dual Zone Offset			•
18	Dual Zone Off Point			•
21	Photocell Transition Off Time	•		
22	Photocell Transition On Time	•		

INSTALLATION INSTRUCTIONS

Recessed Mount Enclosure

The Recessed Mount Enclosure is designed to fit inside a 4" square juntion box (minimum box depth 2.125").



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NOTE:

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

Technical Support: 1.800.535.2465

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