A-LEVEL PROGRAMMING INSTRUCTIONS

PLEASE READ ALL 7 STEPS BEFORE PROGRAMMING

1. Press and hold top button until LED flashes rapidly to enter Programming Mode. Release button.
2. Enter a specific programming function by pressing button the number of times as the desired function number from the A-Level table (e.g., 2x for function 2, *Occupancy Time Delay*).
3. The selected function's current setting displays in a sequence of LED flashes (e.g., 5 flashes for 10 min time delay). To change setting, go to step 4 before sequence repeats 10x.
4. While flashing, press button the number of times as the new desired setting from the function table (e.g., press 4x for 7.5 min time delay). Sensor flashes new setting as confirmation.
5. While the sensor flashes back new setting, interrupt by pressing & holding button until LED flashes rapidly. Release.
6. As final confirmation, re-enter function number that changed (e.g., press 2x for function 2, *Occupancy Time Delay*).
7. LED flashes 2x to verify setting. Otherwise, repeat steps 1-7.

Note: To exit without saving, or change to a different function, let blink back sequence repeat 10x, then return to step 1.

A-LEVEL DETAILED FUNCTION TABLES

*Indicates Factory Default

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

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

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

[2] The LED blinks the ten's digit, pauses, then blinks the one's digit. For a "0" the LED blinks rapidly. The sequence repeats 3x.

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

A-LEVEL DETAILED FUNCTION TABLES (cont.)

*Indicates Factory Default

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

9 = Restore Factory Defaults

1	Maintain Current*	**2**	Restore Defaults

12 = Dual Technology (Microphonics™)[1]

1	Normal*	**2**	Off	**3**	Medium	**4**	Low

Note 1: Not available on PIR only models.

15 = MLO High Setting (applies to MLO Modes 8-10)

1	Min	**4**	30%	**7**	60%	**10**	90%
2	10%	**5**	40%	**8**	70%	**11**	100%*
3	20%	**6**	50%	**9**	80%		

16 = MLO Low Setting (applies to MLO Modes 9-10)

1	Min	**4**	30%	**7**	60%	**10**	90%
2	10%	**5**	40%	**8**	70%	**11**	100%
3	20%	**6**	50%*	**9**	80%		

20 = Multi-Level Operation Mode (MLO)

1	Disabled	**6**	A and B On
2	2 State - Alternating	**7**	A On
3	2 State - Both, A First	**8**	A and B On Dim High
4	3 State	**9**	Dim Low / Dim High
5	2 State - Both, B First	**10**	Dim High / Dim Low

B-LEVEL PROGRAMMING INSTRUCTIONS

PLEASE READ ALL 4 STEPS BEFORE PROGRAMMING

1. Press and hold top button until LED flashes rapidly, release, then hold down until rapid flash again, release, then immediately (within 2 sec) enter programming function as described in step 2.
2. Enter a specific programming function by pressing button the number of times as the desired function number from the B-Level table (e.g., 10x for function 10, *Switch Broadcast Channel*).
3. The selected function's current setting will then be read out in a sequence of LED flashes (e.g., 1x for Channel 1). To change setting, go to step 4 before sequence repeats 3x.
4. While flashing, interrupt by pressing button the number of times as new desired setting from function table (e.g., press 2x for Channel 2). Sensor flashes new setting as confirmation.

Note: To exit or to change to a different function, wait for blink back sequence to repeat 3 times then return to step 1.

B-LEVEL DETAILED FUNCTION TABLES

*Indicates Factory Default ** Units with relays only

1 = Name Unit w/ Number

1 - 9 (e.g. 1 = Assigns #1); **10** = No # assigned*

2 = Manual On (Semi-Auto) Grace Period **

1	0 sec	**3**	15 sec*				

3 = Predictive Exit Time **

1	5 sec	**3**	7 sec	**5**	9 sec	**7**	15 sec	**9**	30 sec
2	6 sec	**4**	8 sec	**6**	10 sec*	**8**	20 sec		

4 = Predictive Grace Time **

1	0 sec	**3**	10 sec	**5**	30 sec	**7**	50 sec
2	5 sec*	**4**	20 sec	**6**	40 sec	**8**	60 sec

5 = Occupancy Broadcast

1	Enable*	**2**	Disable

6 = Occupancy Broadcast Channel

1 - 16 (e.g. 1 = Channel 1*; **2** = Channel 2; etc.)

7 = Photocell Broadcast

1	Enable*	**2**	Disable

B-LEVEL DETAILED FUNCTION TABLES (cont.)

8 = Photocell Broadcast Channel

1 - 16 (e.g. 1 = Channel 1*; **2** = Channel 2; etc.)

9 = Switch Broadcast

1	Enable*	**2**	Disable

10 = Switch Broadcast Channel

1 - 16 (e.g. 1 = Channel 1*; **2** = Channel 2; etc.)

11 = Occupancy Tracking **

1	Disable	**2**	Enable*	**3**	Enable & Ignore Remote

12 = Occupancy Tracking Channel **

1 - 16 (e.g. 1 = Channel 1*; **2** = Channel 2; etc.)

13 = Photocell Tracking **

1	Disable	**2**	Enable*	**3**	Enable & Ignore Remote

14 = Photocell Tracking Channel **

1 - 16 (e.g. 1 = Channel 1*; **2** = Channel 2; etc.)

15 = Switch Tracking **

1	Disable	**2**	Enable*	**3**	Enable & Ignore Remote

16 = Switch Tracking Channel **

1 - 16 (e.g. 1 = Channel 1*; **2** = Channel 2; etc.)

17 = Override Relay **

1	Disable (unforced)*	**2**	Override On	**3**	Override Off

18 = Special Operating Mode **

1	Normal*	**5**	Predictive Off
2	Manual On	**6**	Manual to Override On
3	Auto to Override On	**7**	Manual to Normal
4	Manual to Full Auto		

19 = Invert Relay Logic **

1	Normal Logic*	**2**	Inverse Logic

23 = Special Switch Tracking Mode

1	Disable*	**3**	Ignore Ons
2	Ignore Offs	**4**	Ignore Ons & Offs

A-LEVEL PROGRAMMING FUNCTIONS

2	Occupancy Time Delay	**9**	Restore Factory Defaults
4	100 Hr Burn-In / Auto Set-Point *	**12**	Dual Technology (Microphonics [1])
5	Ten's Digit of Set-Point *	**15**	MLO High Setting
6	One's Digit of Set-Point *	**16**	MLO Low Setting
7	Sunlight Discount Factor *	**20**	Multi-Level Operation Mode (MLO)
8	Incremental Set-Point Adjustment *		

[1] PDT SENSORS ONLY

A-LEVEL FUNCTION DEFINITIONS

2 OCCUPANCY TIME DELAY
Duration an occupancy sensor will keeps lights on after last detecting occupancy. Additional time choices available in SensorView.

4 100 HOUR BURN-IN / AUTO SET-POINT

100 HOUR BURN-IN
Overrides relay on & dim output to full bright (for lamp seasoning)

AUTO SET-POINT *
Photocell calibration procedure; detects optimum lighting levels

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

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

7 SUNLIGHT DISCOUNT FACTOR *
Value used to improve tracking accuracy of photocell during high daylight. Decreasing value lowers the controlled level of the lights during high daylight.

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

9 RESTORE FACTORY DEFAULTS
Returns all functions to original settings

12 DUAL TECHNOLOGY (MICROPHONICS™)
Second method of occupancy detection, allowing sensor to hear occupants

15 MLO HIGH SETTING
Dimming percent level used for MLO Modes involving a "Dim High" setting

16 MLO LOW SETTING
Dimming percent level used for MLO Modes involving a "Dim Low" setting

20 MULTI-LEVEL OPERATION MODE (MLO)
Steps through multiple on/off combinations or dim levels with each button press according to the outlined sequences. After the last step, the sequence repeats.

Disabled
-

2 State - Alternating
A On / B Off; A Off / B On; Both Off

2 State - Both On, A First
A On / B Off; Both On; Both Off

3 State
A On / B Off; A Off / B On; A On / B On; Both Off

2 State - Both On, B First
A Off / B On; Both On; Both Off

A and B On
Both On; Both Off

A On
A On / B Off; Both Off

A and B On & Dim High
A High / B High; Both Off

Dim Low / Dim High
A Low; A High; A Off

Dim High / Dim Low
A High; A Low; A Off

B-LEVEL PROGRAMMING FUNCTIONS

1	Name Unit w/ Number	**11**	Occupancy Tracking **
2	Manual On Grace Period **	**12**	Occupancy Tracking Channel **
3	Predictive Exit Time **	**13**	Photocell Tracking **
4	Predictive Grace Time **	**14**	Photocell Tracking Channel **
5	Occupancy Broadcast	**15**	Switch Tracking **
6	Occupancy Broadcast Channel	**16**	Switch Tracking Channel **
7	Photocell Broadcast *	**17**	Override Relay **
8	Photocell Broadcast Channel *	**18**	Special Operating Mode **
9	Switch Broadcast	**19**	Invert Relay Logic **
10	Switch Broadcast Channel	**23**	Special Switch Tracking Mode **

B-LEVEL FUNCTION DEFINITIONS

1 NAME UNIT w/ NUMBER
Applies a number to the default name visible in SensorView

2 MANUAL ON (SEMI-AUTO) GRACE PERIOD **
Time after lights switch off that they can reactivate with movement

3 PREDICTIVE EXIT TIME **
Time after manually turning lights off for occupant to leave space

4 PREDICTIVE GRACE TIME **
Time after Predictive Exit Time that sensor rescans for occupancy

5 OCCUPANCY BROADCAST
Indicates if occupancy events are communicated to rest of zone

6 OCCUPANCY BROADCAST CHANNEL
Local channel on which occupancy information is communicated

7 PHOTOCELL BROADCAST *
Indicates if photocell events are communicated to rest of zone

8 PHOTOCELL BROADCAST CHANNEL *
Channel on which photocell information is communicated

9 SWITCH BROADCAST
Indicates if manual events (on/off/raise/lower) are communicated to the rest of the zone

10 SWITCH BROADCAST CHANNEL
Channel on which manual events (on/off/raise/lower) are communicated

11 OCCUPANCY TRACKING **
Controls whether a device's relay reacts to occupancy info

12 OCCUPANCY TRACKING CHANNEL **
Local channel that a device's relay receives occupancy info from

13 PHOTOCELL TRACKING **
Controls whether a device's relay reacts to photocell information

B-LEVEL FUNCTION DEFINITIONS (cont)

14 PHOTOCELL TRACKING CHANNEL **
Local channel that device's relay receives photocell info on

15 SWITCH TRACKING **
Controls whether a device's relay will react to switch information

16 SWITCH TRACKING CHANNEL **
Local channel that device's relay output receives switch info on

17 OVERRIDE RELAY **
Whether device's relay is forced on/off

18 SPECIAL OPERATING MODE **
Unique defined behaviors of relays

NORMAL
Operating Mode where occupancy sensor is capable of turning lights on/off

AUTO TO OVERRIDE ON
Special Mode where the lights turn on initially by occupant detection, and are then left in Override On state

MANUAL ON TO FULL AUTO
Special Mode that initially requires occupant to manually turn on lights, after which sensor assumes full on/off control

MANUAL ON (SEMI-AUTO)
Special Mode that requires occupant to manually turn lights on, while sensor automatically turns them off

PREDICTIVE OFF
When lights are off, determines whether occupants remained or left the room, leaving lights in either the Override Off or Auto On state accordingly

MANUAL TO TIMED OVERRIDE ON
Special Mode where lights initially turned on manually but remain in Override On state for a pre-determined period (Timed Override Delay)

MANUAL TO NORMAL
Special Mode where lights initially turn on manually, but remain in the Normal State (enabling auto-dimming) for a pre-determined period (Timed Override Delay)

19 INVERT RELAY LOGIC **
Reverses functionality of relay

23 SPECIAL SWITCH TRACKING MODE **
Defines unique behavior related to how relay will respond to particular switch information

*** Not available for -LV units with night lights**

**** Available for units with relays only**

NOTE:

All settings can also be configured via ***SensorView*** software.

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AcuityControls™

nLight®

WALL SWITCH SENSOR PROGRAMMING INSTRUCTIONS

Technical Support: 1.800.535.2465