

PROJECT NAME: \_\_\_\_\_ CAT. #: \_\_\_\_\_  
 NOTES: \_\_\_\_\_ FIXTURE SCHEDULE: \_\_\_\_\_

## Sensor Remote Programmer

## RMRC-100



### Product Description:

The remote control Wireless IR Configuration Tool is a handheld tool for remote configuration of IA-enabled fixture integrated sensors. The tool enables device to modify via pushbutton without ladders or tools, and stores up to four sensor parameter modes to speed configuration of multiple sensors.



### Features:

- Power Supply: 2xAAA 1.5V battery, Akline preferred
- RC-100 in carrying case
- Up to 15m (50 ft.) upload range
- Operating temperature: 0°C to 50°C (32°F to 122°F)
- Dimensions: 123 x 70 x 20.3 mm (4.84" x 2.76" x 0.8")























### Operations:

The remote control uses bidirectional IR communication to send and receive sensor settings at mounting height up to 50 feet. The device can display previously established sensor parameters, copy parameters and send new parameters or store parameter profiles. For projects where identical settings may be desired across a large number of areas or spaces, this capability provides a streamlined method of configuration. Settings can be copied throughout a site, or in different sites.

### LED Indicators

LED	DESCRIPTION
BRIGHTNESS	High end trim turning function (To Set the output level of connected lighting during occupancy), task light level
SENSITIVITY	To set the occupancy sensing sensitivity of the Sensor
HOLD TIME	The time that the Sensor will turn off (if you choose stand-by level is 0) or dim the light to a low level after the area is vacated
DAYLIGHT SENSOR	To represent various thresholds of natural light level for the Sensor
	To select the current surrounding lux value as the daylight threshold. This feature enables the fixture to function well in any real application circumstances
	The daylight sensor stops working, and all motion detected could turn on the lighting fixture, no matter how bright the natural light is
STAND-BY DIM	To set the output level of connected lighting during vacancy. The sensor will regulate the lighting output at the set level. Setting the STAND-BY DIM level at 0 means light full off during vacancy
STAND-BY TIME	To represent the time that the Sensor will keep the light at low dim level after the HOLD TIME elapsed

### Button Operation

BUTTON	DESCRIPTION
	Press the  button, the light goes to permanent on or permanent off mode, and the sensor is disabled. (MUST press  button to quit this mode for Setting.
	Display the current/lastest setting parameters in LED indicators(the LED indicators will on for showing the setting parameters).
	Press  button, all settings go back to settings of dip Switch in sensor.
	Enter in the setting condition, the parameter leds of remote control will flash to be selected. and Navigate to UP and Down for choose selected parameters in LED indicators.
	Confirm the selected parameters selected parameters in remote control.
	Press  button, upload the current parameters to sensor(s), the led light which the sensor connects will on/off as confirm.
	4 Scene modes with preset parameters which are available to be changed and saved in modes.
	Press  button, the sensor starts to function and all settings remain the same as the latest status before the light is switched on/off.
	The button  is for testing purpose sensitivity only. after you choose sensitivity thresholds, then you press  button, The sensor goes to test mode(hold lime is only 2s) automatically, meanwhile the stand-by period and daylight sensor are disabled. Press  button to quit from this mode.
	Navigate to LEFT and RIGHT for choose selected parameters in LED indicators.
	Open and close daylight Control function. Press  or  Enter in the setting condition, the parameter leds of remote control will flash to be selected, Press  for open or close smart daylight Sensor.

### Setting

The SETTING Content contains all available settings and parameters for remote sensors. It allows you to change the available control, parameters, and operation of the sensor from factory default or current parameters.

### Change multiple settings of sensor(s)

1. Press **DISP** button, the remote control leds will show the latest parameters you set.

**NOTE:** if you push **ON/OFF** button before, you must push **AUTO** button to unlock the sensor.

2. Press **▲** or **▼** enter in the setting condition, the parameter leds of remote control will flash to be selected, navigate to the desired setting by pressing **▲** **▼** **◀** **▶** to select the new parameters.

3. Press ok to confirm all setting and saving.

4. Aim at the target sensor and press to upload the new parameter, the led light which the sensor connects will on/off as confirm.

**NOTE:** the setting works key step is by Push **▲** or **▼**, enter in the setting condition.

**NOTE:** the led light which the sensor connects will on/off after getting the new parameter as confirm.

**NOTE:** If you press **DISP** button, the remote led indicators will show the latest parameters which were sent.

### Change multiple setting of sensors with daylight control function

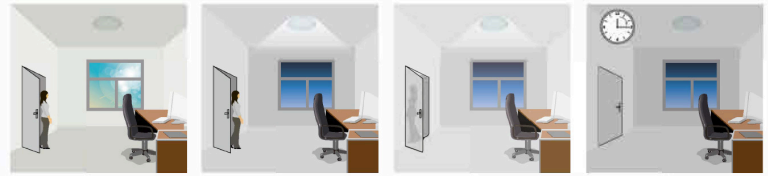
1. Press **DISP**, the remote led indicators will show the latest parameters.
2. Press **▲** or **▼** enter in the setting condition, the parameter led indicators of remote control will flash to be selected.
3. Press **☐**, 2 led indicators will flash in daylight sensor settings, select daylight **10** **30** **50** as setpoint to light on Automatically, select daylight **100** **300** **500** as setpoint to light off Automatically.
4. Press **OK** to confirm all setting and saving.
5. Aim at the target sensor and press **SEND** to upload the new parameter. The led light which the sensor connects will turn on/off.

**NOTE:** **☐** is disabled by default.

1. Open daylight Control function by push **☐** when remote control is in setting condition.
2. When the daylight control function sensors open, 2 Led indicators are flash in daylight sensor setting. Select daylight **10** **30** **50** as setpoint to light on Automatically, select daylight **100** **300** **500** as setpoint to light off automatically. When daylight control function close, 1 Led indicator is flash in the daylight sensor setting for choose daylight sensor threshold.
3. When the daylight control function sensors open, the stand-by time is only **+∞**.
4. The daylight control function sensors take places of normal photocell sensor and works independently
5. See Bi-level with daylight control function.

### Bi-level Control function

This function inside the motion sensor to achieve bi-level control. for some areas which require a light change before switch-off. The sensor offers 3 levels of light: 100%-->dimmed light (natural light is insufficient)-->off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; Selectable daylight threshold and freedom of detection area.



With sufficient ambient light, the light does not switch on when presence is detected.

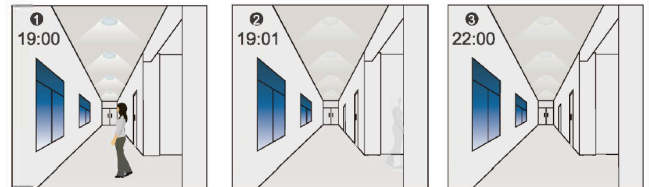
With sufficient ambient light, the sensor switches on the light automatically when Occupancy.

After hold-time, the light dims to stand-by level if the surrounding ambient light is below the daylight threshold.

Light switches off automatically after the stand-by period elapses.

### Bi-level with Daylight Control function

Open daylight Control function by push **☐** when remote control is in setting condition.



The light turns on at task light level at occupancy.

The light dims to stand-by level after the hold-time.

The light remains in dimming level at night.

Settings on this demonstration:

Hold-time: 1 minute

setpoint to light on:50lux

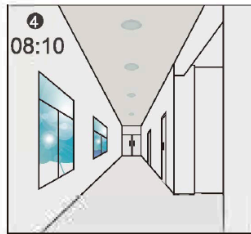
setpoint to light off:300lux

Stand-by Dim: 20%

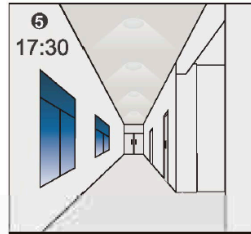
Stand-by period: +∞

(when Open daylight control function, the stand-by time is only **+∞**)

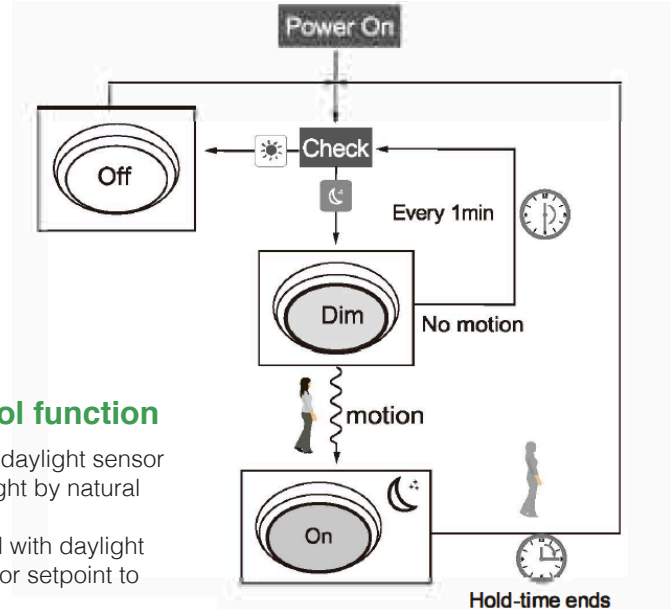
① ↔ ③ goes in cycle at night ...  
at task level on when movement detected , and dims to 20% in long absence.



When the natural light level exceeds daylight sensor setpoint to light off, the light will turn off even if when the space is occupied.



The light automatically turns on at 20% when natural light is insufficient even if vacancy.



### Bi-level Control function VS Bi- I evel with daylight Control function

1. Bi-level Control function, turn on the light depends on ambient light level lower daylight sensor threshold and Occupancy. Bi-level with daylight Control function, turn on the light by natural light level lower daylight sensor setpoint to light on even if vacancy.
2. Bi-level Control function.turn off light by stand-by time finish if vacancy. Bi-level with daylight Control function.turn off the light by natural light level higher than daylight sensor setpoint to light off even if occupancy.
3. Bi-level with daylight Control function, natural light level higher/lower than daylight sensor setpoint to light off/on M UST keep at least 1 mintue,that will turn off/on the light automatically.

### About RESET and MODE (1,2,3,4)

The remote control comes with 4 Scene MODES which are not default. You may make desired parameters and save as the new MODE(1,2,3,4) to configure the installed sensors.

**RESET:** all settings go back to settings of DIP Switch in sensor

### Scene Modes (1,2,3,4)

MODE	BRIGHTNESS	SENSITIVITY	HOLD TIME	DAYLIGHT SENSOR	STAND-BY DIM	STAND-BY TIME
MODE 1	70%	20%	10s		0%	+∞
MODE 2	70%	20%	10s		0%	+∞
MODE 3	70%	20%	10s		0%	+∞
MODE 4	70%	20%	10s		0%	+∞

### Change the MODES:

1. Press (MODE1) / (MODE2) / (MODE3) / (MODE4) button, the remote control led indicators show existing parameters.
2. Press (▲) (▼) (◀) (▶) to select the new parameters.
3. Press (OK) to confirm all parameters and daving in the mode.

### Upload

The upload function allows you to configure the sensor with all parameters in one operation. You may select CURRENT SETTING parameters or the MODE for uploading. Current setting parametersor the MODE are displayed in Remote control.

### Upload the current parameters to sensor(s), and duplicate the sensor parameters from one to another

1. Press (DISP) button or press (MODE1) / (MODE2) / (MODE3) / (MODE4), all parameters are displayed in Remote control.  
**NOTE:** Check if all parameters are correct, if not, change them.
2. Aim at the snsr and press (SEND) button, the light that sensor connects will be on/off as confirm.  
**NOTE:** If other sensor need same parameters, just aim at the sensor and press (SEND) button.