Remote Configurator Tool
User Guide

06/21/18

Using the IMS/PC Remote Configurator Tool

The Remote Configuration Tool is a hand-held tool for changing defaults and testing of Integral Motion Sensor (IMS). It provides wireless access to the devices for parameter changes and testing.

The Remote display shows menus and prompts to lead you through each process. The navigation pad provides a simple way to navigate through the customization fields.

Within a certain mounting height of the sensor, the Remote allows modification of the system without requiring ladders or tools; simply with a touch of a few buttons.

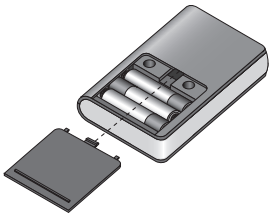
The Remote IR transceiver allows bi-directional communication between the device and the Remote configuration tool . Simple menu screens let you see the current status of the sensor and make changes. It can change device parameters such as high/low mode, sensitivity, time delay, cut off and more. With the Remote you can also establish and store device parameter profiles.

Ordering

LSI sells these Wattstopper products in conjunction with a variety of area lighting products. The sensor will be ordered as the controls option in the fixture nomenclature and the Remote Configurator Tool will be ordered as an accessory.

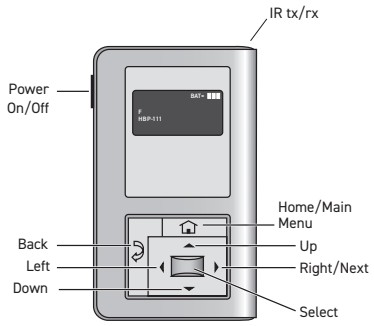
Product	LSI part number	Wattstopper part number
Remote Configurator Tool	5849929	FSIR-100
Integral Motion Sensor	IMS	FSP-2X1 family

Batteries



The Remote Configurator Tool operates on three standard 1.5V AAA Alkaline batteries or three rechargeable AAA NiMH batteries. The battery status displays in the upper right corner of the display. Three bars next to BAT= indicates a full battery charge. A warning appears on the display when the battery level falls below a minimum acceptable level. To conserve battery power, the Remote automatically shuts off 10 minutes after the last key press.

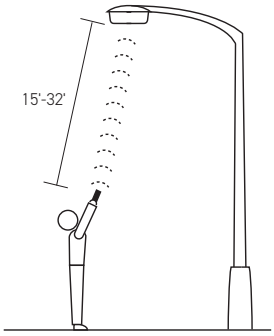
- If communication is not successful, (if possible) move closer to the sensor.
- If still not successful, there may be too much IR interference from other sources. Programming the unit at night when there is no daylight available may be the only way to communicate with the sensor.



Navigation

Navigate from one field to another using (up) or (down) arrow keys. The active field is indicated by flashing (alternates) between yellow text on black background and black text on yellow background.

Once active, use the Select button to move to a menu or function within the active field. Value fields are used to adjust parameter settings. They are shown in "less-than/greater-than" symbols: <value>. Once active, change them using(left) and (right) arrow keys. The right key increments and the left key decrements a value. Selections wrap-around if you continue to press the key beyond maximum or minimum values. Moving away from the value field overwrites the original value. The Home button takes you to the main menu. The Back button can be thought of as an undo function. It takes you back one screen. Changes that were in process prior to pressing the key are lost.

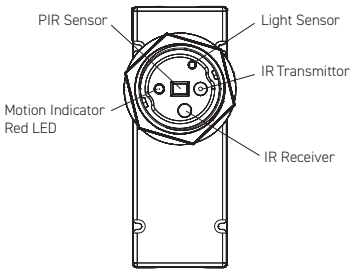


IR Communication

IR communication can be affected by the mounting height of the sensor and high ambient lighting such as direct daylight or electric light such as floodlights, and some halogen, fluorescent lamps, LED's.

When trying to communicate with the device, be sure to be positioned under the sensor without any obstructions. Every time the commissioning tool establishes communication with the device, the controlled load will cycle.

Note that the distance between user and sensor may vary depending on the lighting environment.



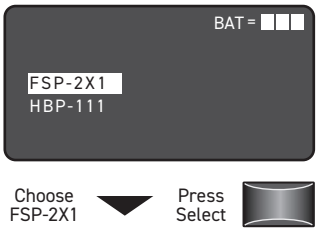
IMS Sensor

The IMS is a motion sensor that dims lighting from high to low based on movement. This slim, low-profile sensor is designed for installation inside the bottom of a light fixture body. The PIR lens module connects to the IMS through a 1.30" diameter hole in the bottom of the fixture.

The sensor uses passive infrared (PIR) sensing technology that reacts to changes in infrared energy (moving body heat) within the coverage area. Once the sensor stops detecting movement and the time delay elapses lights will go from high to low mode and eventually to an OFF position if it is desired. The sensor must directly "see" motion of a person or moving object to detect them, so careful consideration must be given to sensor luminaire placement and lens selection. Avoid placing the sensor where obstructions may block the sensor's line of sight.

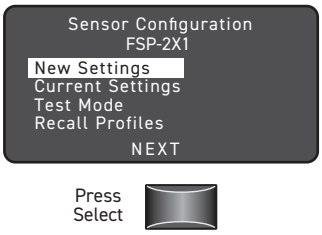
Remote Configurator Tool Functionality

Home Menu



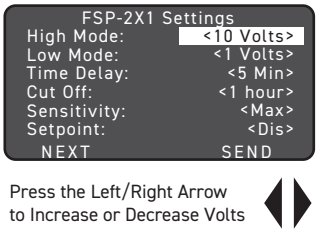
The Home (or Main) menu displays after the power-up process completes. It contains information on the battery status and sensor menu choices. Press the up or down buttons to highlight the desired sensor then press Select.

New Settings



New Settings allow you to select the different sensor parameters such as: High/Low Mode, Time Delay, Cut Off, Sensitivity, Setpoint and Ramp/Fade rates.

High Mode

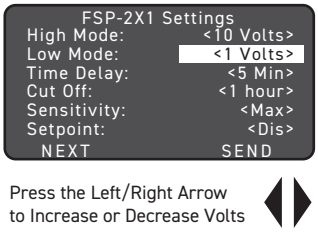


When the sensor detects motion the dimming control output ramps up to the selected HIGH light level (default: 10V).

Range: 0 V to 10 V
Increments: 0.2 V

To program the sensor with selected parameters go to SEND and press Select button. The load should cycle when sensor is updated.

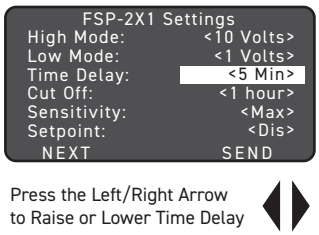
Low Mode



After the sensor stops detecting motion and the time delay expires dimming control output fades down to the selected LOW light level (default: 1V).

Range: OFF, 0 V to 9.8 V
Increments: 0.2 V

Time Delay

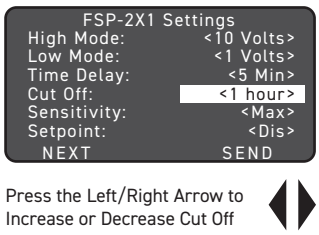


The time that must elapse after the last time the sensor detects motion for the lights to fade to LOW mode (default: 5 min).

NOTE: For the FSIR-100-RU, the default is 2 min.

Range: 30 sec, 1 min to 30 min Increments: 1 min

Cut Off

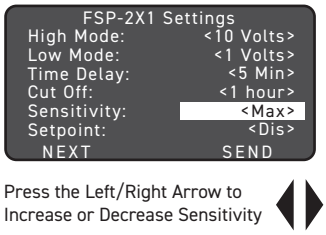


The time that must elapse after the lights fade to Low Mode and the sensor detects no motion for the lights to turn OFF (default: 1 hour).

Range: Disable (No cut off, lights will stay in low mode) 1 min to 59 min, 1 hr to 5 hr (press and hold skim faster)

Increments: 1 min or 1 hr

Sensitivity

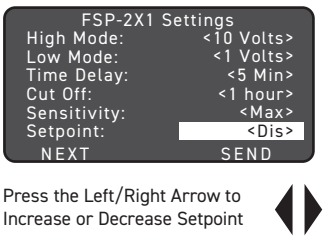


The response of the PIR detector to motion within the coverage area (default: max).

Range and Sequence: On-Fix, Off-Fix, Low, Med, Max

(On-Fix: relay closed, occupancy detection disabled; Off-Fix, relay open, occupancy detection disabled.

Hold Off Setpoint



The selectable ambient light level threshold that will hold the lights off or at LOW level when the sensor detects motion (default: disable).

Range: Auto, Disable, 1 fc to 250 fc

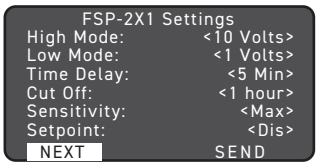
Increments: 1 fc

Sequence: Disable, 1 fc to 250 fc

The Auto option invokes an automatic calibration procedure to establish an appropriate setpoint based upon the contribution of the electric light. As part of this procedure, the controlled load is turned on to warm up the lamp, and then it is switched off and on eight times, terminating in an off state. After this process, a new setpoint value is automatically calculated. During this time, communication to the sensor is disabled.

Remote Configurator Tool Functionality Continued

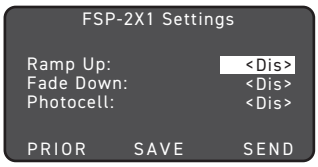
Next



Choose NEXT to view more settings

To view more settings go to NEXT and press the Select button

Ramp Up



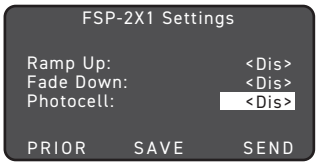
Press the Left/Right arrow to Increase or Decrease sec

Time period for light level to increase from LOW to HIGH (default is Disable; light/load switches instantly).

Range: Disable, 1 sec to 60 sec

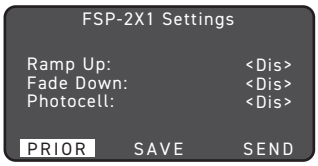
Increments: 1 sec

Photocell On/Off



When the light level exceeds this setting, the lights will turn off even when the space is occupied. Once the light level exceeds this setting, the sensor will wait and monitor for a short period of time in order to confirm the light level increase is not temporary before forcing the lights to go off. When light level goes below the settings, the light will turn on even without motion detection. This feature is disabled by default. If using this setting in combination with the Hold Off setpoint, there must be at least 10fc of dead band between the two settings. The Photocell setpoint is automatically set to maintain at least 10fc of dead band above the Hold Off setpoint to help avoid load cycling.

PRIOR

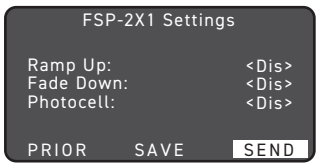


Press the down arrow to choose PRIOR

Press Select

To go back to previous settings go to PRIOR and press the Select button.

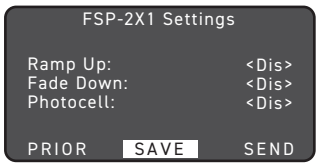
Send



Press the down arrow to choose SEND

To program the sensor with the selected parameters go to SEND and press the Select button. The controlled load should cycle once the sensor is updated.

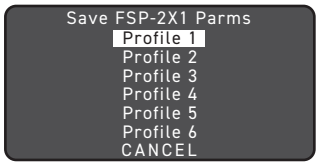
Save



Press the down arrow to choose SAVE

Press Select

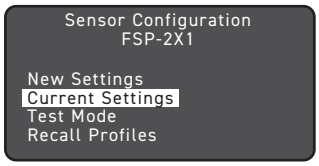
To Save these New Settings parameters as one of the profiles go to SAVE and press the Select button.



Press the up/down arrow to choose Profile

Press Select

Current Settings



Choose current settings

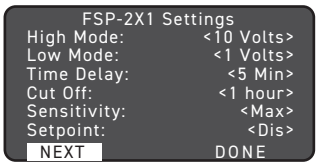
Press Select

Point and Press Select

Current Settings allow you to recall the parameters for a specific sensor. These are read only parameters.

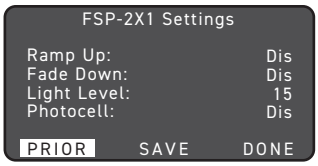
Remote Configurator Tool Functionality Continued

View Current Settings



Highlight and press Select to view the Current Settings

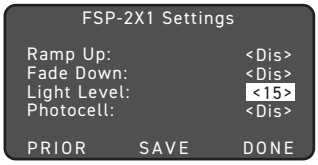
Press Select to view more settings



To go back to previous settings go to PRIOR and press the Select button

Press the Down Arrow to Choose from PRIOR

Light Level



Displays the light level at the sensor. The light level reading can be used as a reference for setpoint adjustments.

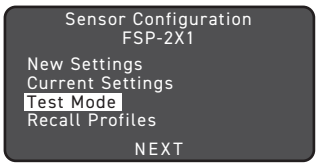
Press the Down Arrow to Choose from PRIOR

Done

To go to the Sensor Home screen go to DONE and press the Select button.

Press the Down Arrow to Choose DONE

Test Mode

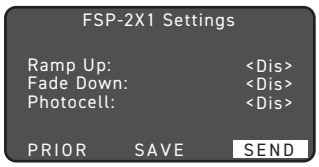


Test Mode shortens timeouts for High/Low and Cut Off, to allow quick verification of settings. Test Mode disables automatically after 5 minutes.

Choose Test Mode

Press Select

Enable/Disable

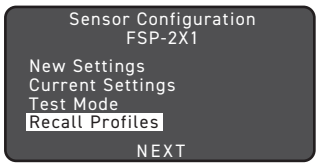


Test Mode has been enabled

Press the Left/Right arrow to Enable or Disable Test Mode

Press Select

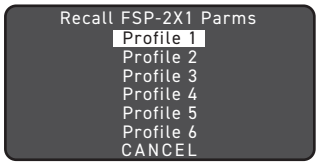
Recall Profiles



Recall Profiles allow the user to select the saved parameter profiles. This feature is used when programming multiple Sensors with the same parameters.

Choose Recall Profiles

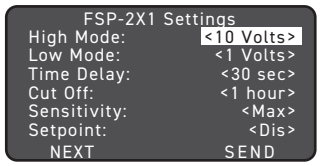
Press Select



Selecting a specific profile allow the user to also change the parameters such as: High/Low Mode, Time Delay, Cut Off, Sensitivity, Setpoint and Ramp/Fade rates.

Press the up/down arrow to choose Profile

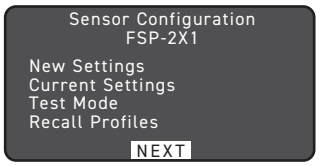
Press Select



Remote Configurator Tool Functionality Continued

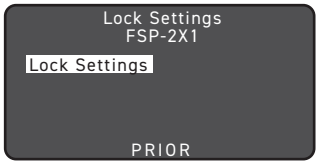
Lock Settings

IR locks to prevent unauthorized changes of Sensor parameters.



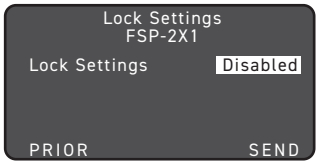
Press Select 

To view more sensor configuration settings go to NEXT and press the Select button.



Press Select 

Sensor default settings communicate with the Remote Configurator Tool; however, this security feature limits communication only for authorized installers who have access to main power supply to the sensor. Press Select to set Lock Delay or press PRIOR to go back.

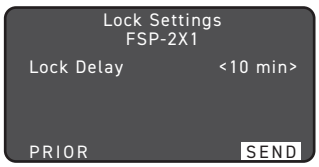


Press the Left/Right arrow to Disable or set Lock Delay time 

Lock Delay is disabled by default and sensor parameter can change with any Remote at anytime. To enable Lock Delay with time, select lock delay time and press SEND to set delay time. Its parameter changes will be locked after the timer expires. The sensor will be locked unless there is a power cycle. Any locked sensor needs power cycling prior to Remote configuration. To permanently disable Lock Delay after power cycling, select Disable and press SEND.

Range: 10 min - 240 min

Increments: 1 min



Press Select 

Highlight SEND and press Select to enabled lock settings.

This screen will appear if the sensor is locked. If it is locked, cycle the power.

Troubleshooting

Problem: Display does not come on when I press the Power On Button.

- Make sure the batteries are installed correctly
- Make sure batteries are good

Problem: No Response Screen appears:

Point and Press Select 

- Make sure that the device is not obstructed and try again
- Move closer to the device
- The angle may be too high, move closer so that you are directly underneath the sensor
- If still not successful, there may be too much IR interference from other sources. Programming the unit at night when there is no daylight available may be the only way to communicate with the sensor
- Make sure you are using the correct Remote Configurator tool from Wattstopper (FSIR-100 and not the LMCT-100)
- Make sure the device is within range
- Make sure the device you are pointing at is powered

For other issues not related to communication, consult the appropriate installation instructions or contact Technical Support at 800.879.8585

Warranty

Wattstopper warranties its products to be free of defects in materials and workmanship for a period of five (5) years. There are no obligations or liabilities on the part of Wattstopper for consequential damages arising out of, or in connection with, the use or performance of this product or other indirect damages with respect to loss of property, revenue or profit, or cost of removal, installation or reinstallation.