

#### Working with the Insteon Water Leak Detector

http://www.smarthome.com/insteon-2852-222-water-leak-sensor.html

Using the Water Leak Detector with HCA starts by adding it to your design. You need to be able to access the "Set" button on it to establish a link to it. The set button is on the top of the device.

In the Add Wizard on step 3 choose "Insteon" as the manufacturer and then press the Next button. In step 4 <u>before</u> pressing the dialog button to put the PowerLinc into linking mode, place the device into linking mode by pressing and holding its set button until it enters linking mode. Then press the PowerLinc button in the dialog to complete the link.

	Address and type: 25.89.2D 2852-222 - Leak Sensor
	For devices always powered on - switches, wired-in keypads, modules, etc.
-	Step 1. Press this button to put the PowerLinc into linking mode PowerLinc linking mode
	Step 2: Place the device you are adding to your HCA design into Linking mode.   Press and hold the "Set" button on the face of the device and then release it.   Some devices beep when they have reported their address   Step 3. Come back to the computer and the device's address and type should be displayed above
U	For wireless devices - motion sensors, keypads, etc. Step 1. Place the device into linking mode Step 2. Press this button to put the PowerLinc into linking mode PowerLinc linking mode
	Step 3. The device's address and type should be displayed above If the above procedure doesn't work, configure the device manually: Manual Configuration

Insteon devices send commands that HCA receives. These commands are things like On, Off, Fade Start, Fade Stop, Status, etc. The message, in addition to the command, contains what is called the "group number". A group number is just a method by which the message identifies the source of the command from the possible subunits of the device. For a keypad, the group numbers are used to identify which button pressed. For other devices, the group numbers identify a specific sub-unit. In the case of this device there are several different groups. You just have to know – using the table below – what group does what.



When you create a trigger in HCA you specify the device, the group, and the command. When a message is received that matches all three of these then the trigger happens and the program starts.

The Hidden Door Sensor makes these transmissions:

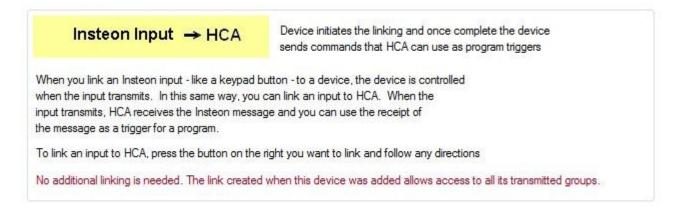
Group 1: Button pressed when in "dry" state

Group 2: Button pressed when in "wet" state or detected "wet"

Group 3: (Not used)

Group 4: Periodic notification so you know it is alive. Reports approximately once a day.

Unlike some of the other wireless sensors no additional linking is needed to have HCA receive the group 1, 2, and 4 messages.



Once added to the design you can create program triggers for the events you want to handle. For example this program triggers on the dry and wet messages.

lame	Notes	Triggers	Visual Programmer	Advanced	Restart	lcon	Display	Log	Schedule	References
Start t	the progra	am on any	of these triggers:							
Trigg	ger								Edit	Delete
•	When Ho	ome - Leak	Detector sends On b	y group 1					Edit	Delete
=	When Ho	ome - Leak	Detector sends On b	v group 2					Edit	Delete

Two important points:



If the device detects "wet" it sends the group 2 message <u>every few minutes and does not stop</u> until you press the "set" button. If you create a program that, for example, sends you a SMS message upon receipt of a Group 2 message you will receive many of these messages until you reset the device. A better implementation is to have the program start off by testing a flag to see if the "wet" message was already delivered and if so the program can terminate. If not, it can send the SMS message and set the flag. Create a second program that triggers on the "dry" message to clear the flag.

HCA records the state of each group – on or off – as part of the runtime state of devices and you can test their state using the Visual Programmer Test element. This is useful for devices like keypads to see if the button is on or off. But testing of the state of group 1 or 2 doesn't yield useful data. If the device detects a "wet" condition then group 2 will be "on". Once you reset the detector group 2 will still be "on" as the reset sends a ON to group 1 and not an OFF to group 2.

You can configure the Overdue Device Alert to watch for the group 4 messages and raise an alert if the device isn't heard from over two days. Configuring the overdue time of two days handles the possibilities of a missed message.



onfiguration for alert:	Category 1 devices overdue		
	Disable this Alert		
hen this alert occurrs:			
Create an aler	log entry Each Time 🔻	]	
and show the t	oubleshooter alert level Yellow afte	r 1 occurrences then Red after	2 occurrences
and start this p	rogram (none)	•	
and clear the a	ert count Never 🗸		
Device Selection			
Device Selection			
Home - Box Home - Door Sensor Home - KL8		Home - Leak Detector	
Home - Box Home - Door Sensor Home - KL8 Home - Mini 2		Home - Leak Detector	
Home - Box Home - Door Sensor Home - KL8 Home - Mini 2 Home - Mini Remote Home - Open Close Se	nsor		
Home - Box Home - Door Sensor Home - KL8 Home - Mini 2 Home - Mini Remote	nsor		

You can also use the Visual Scene Editor (VSE) with this sensor. Using the VSE you can build scenes that are controlled by the sensor and control Insteon receivers (switches, KeypadLinc LEDs, output devices). When using the HCA VSE, the programming pauses when the scene contains a wireless device to give you time to place it into linking mode so its receiver is on and can then receive the programming commands.