

UltraSmartThermostat3 HSPI User's Guide

A HomeSeer HS3 plug-in to connect to the
Netatmo Smart Thermostat.

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Introduction

UltraSmartThermostat3 is a HomeSeer3 plug-in that allows you to use HomeSeer to control the Netatmo Thermostat.

Intended Audience

This document is intended for the HomeSeer user that has chosen to install and configure the UltraSmartThermostat3 HomeSeer Plug-in.

UltraSmartThermostat3 HSPI Overview

How It Works

- UltraSmartThermostat3 HSPI queries the Netatmo Thermostat API servers to obtain reading from your Netatmo Thermostats.
- UltraSmartThermostat3 HPSI automatically creates HomeSeer devices depending on the number of thermostats you have installed.

Features

- Multiple threading allows UltraSmartThermostat3 to query the Netatmo API servers for thermostat readings without disrupting the performance of HomeSeer.
- Error Try/Catch logic to ensure plug-in doesn't fail with an unhandled exception.

Requirements

- Homeseer3 version 3.0 or greater.
- One or more Netatmo Thermostats.

UltraSmartThermostat3 HSPI Installation

Downloading the HomeSeer Plug-in

1. From your HomeSeer web page, select PLUG-INS > Manage.
2. Click the + icon next to Additional Interfaces to expand the list of available HomeSeer3 plug-ins.
3. Click the + icon next to the “**Thermostat / HVAC**” category, then click the checkbox next to the UltraSmartThermostat3 (Netatmo Thermostat) package to mark the plug-in for installation.
4. Under “Pending Updates/Installs”, click the Download and Install button.
5. Once the installer finishes, find the UltraSmartThermostat3 plug-in under Installed Plug-Ins, then enable it.

UltraSmartThermostat3 HSPI Setup

Before you begin to configure the UltraSmartThermostat3 plug-in, you'll need to make sure your Netatmo Thermostat has been properly registered with Netatmo. Follow the instructions from the Netatmo website to configuration your Netatmo Thermostat.

Enter Your Netatmo User Credentials

1. From the UltraSmartThermostat3 > Options > Netatmo Authentication section, enter your Netatmo Username and Password into the text boxes provided, then click Save Options.
2. Please leave the Netatmo Client Id and Client Secret text boxes empty to use the UltraSmartThermostat3 HSPI Netatmo client application.

UltraSmartThermostat3 HSPI Configuration

Web Page Layout

The UltraSmartThermostat3 plug-in has seven web pages that provide access the available features of the plug-in.

The available web pages are as follows:

1. **Status** – Displays the plug-in and Netatmo status.
2. **Options** – Displays and allows you to change the options associated with the plug-in.

Screenshot

The screenshot shows the HomeSeer web interface for the UltraSmartThermostat3 plug-in. The top navigation bar includes 'HOME', 'VIEW', 'TOOLS', and 'PLUG-INS'. The main content area is divided into two tabs: 'Status' and 'Options'. The 'Options' tab is active, showing the following information:

Plug-In Status	
Name:	UltraSmartThermostat3
Status:	OK
Version:	3.0.6233.18890

Netatmo Authentication Status	
Authenticated:	True
Success:	8
Failure:	0

The bottom navigation bar includes links for Home, Device Status, Device Management, Events, Log, Setup, Global Elements, Control Panel, Manage Plug-ins, and About.

UltraSmartThermostat3 HSPI Options

All options are set from the Options web page.

The following options are supported:

1. **Username** –Please enter your Netatmo user name to access the Netatmo API servers.
2. **Password** –Please enter your Netatmo password to access the Netatmo API servers.

3. **Client Id** – This is the API Client Id used to access the Netatmo API servers. *Please leave this textbox blank to use the default.*
4. **Client Secret** – This is the API Client Secret used to access the Netatmo API. *Please leave this textbox blank to use the default.*
5. **Unit Type** – Specify the preferred unit types (e.g. U.S. customary units or metric system units).
6. **Thermostat Update** – Specify how often to check the Netatmo API servers for thermostat readings.
7. **Register Link** – If set to Yes, the UltraSmartThermostat3 button will be displayed on all web pages.
8. **Logging Level** – Specify the application logging level.

Screenshot

The screenshot displays the configuration interface for the UltraSmartThermostat3 plug-in in HomeSeer. The interface includes a top navigation bar with 'HOME', 'VIEW', 'TOOLS', and 'PLUG-INS' tabs. Below this, there are tabs for 'Status' and 'Options'. The 'Options' tab is selected, showing several configuration sections:

- Netatmo Credentials:** Fields for Username (Required) and Password (Required).
- Netatmo Client:** Fields for Client Id (Optional) and Client Secret (Optional).
- Netatmo Options:** A dropdown menu for Unit Type, currently set to 'Metric system units (kms, °C, etc...)'. The 'Metric system units (kms, °C, etc...)' option is selected.
- Netatmo Update Frequency:** A dropdown menu for Thermostat Update, currently set to '5 Minutes'.
- Web Page Access:** Radio buttons for Authorized User Roles: Guest, Admin (checked), Normal, and Local.
- Application Options:** A dropdown menu for Logging Level, currently set to 'Informational'.

At the bottom of the page, there is a navigation bar with links: Home | Device Status | Device Management | Events | Log | Setup | Global Elements | Control Panel | Manage Plug-ins | About.

Adding Netatmo Thermostat HomeSeer Devices

The UltraSmartThermostat3 plug-in automatically adds the supported HomeSeer devices depending on the number of Netatmo thermostats installed.

Netatmo Firmware Devices

This device displays the current firmware version of your Netatmo Smart Thermostat.

Netatmo Update Devices

This device displays when the last update was received by the Netatmo API servers.

Netatmo Modules Device

The device displays the number of modules associated with the Netatmo Thermostat Relay.

Netatmo Wi-Fi Device

The device displays the Wi-Fi signal quality (Bad, Average, and Good).

Netatmo Battery Status Device

The device displays the battery level (High, Medium, and Low).

Netatmo RF Device

The device displays the radio frequency signal quality (Full, High, Medium, and Low).

Netatmo Battery Percentage Device

The device displays the battery level percentage (0% - 100%).

Netatmo Setpoint Time Device

The device displays when the manual thermostat set point will expire.

Netatmo Setpoint Mode Device

The device displays when the thermostat set point mode (Off, Program, Away, Frost-guard, Manual, Max).

Netatmo Temperature Device

This device displays the current temperature measured by your Netatmo Smart Thermostat.

Netatmo State

This HomeSeer device allows you to enable or disable the updates from the Netatmo Thermostat.

Screenshot

Status	Floor	Room	Name	Type	Last Change	Control
<input type="checkbox"/>	Root	Netatmo Thermostat Relay	UltraSmartThermostat3 Plugin	Bathroom [Netatmo Thermostat Relay]	Netatmo Thermostat Relay	
<input type="checkbox"/>	Firmware 71	Netatmo Thermostat Relay	UltraSmartThermostat3 Plugin	Device Firmware Version	Netatmo Firmware	Today 10:33:43 AM
<input type="checkbox"/>	24 Minutes Ago	Netatmo Thermostat Relay	UltraSmartThermostat3 Plugin	Last Update	Netatmo Update	Today 11:44:17 AM
<input type="checkbox"/>	1 Modules	Netatmo Thermostat Relay	UltraSmartThermostat3 Plugin	Module Count	Netatmo Modules	Today 10:33:43 AM
<input type="checkbox"/>	Good	Netatmo Thermostat Relay	UltraSmartThermostat3 Plugin	WiFi Signal Status	Netatmo WiFi	Today 10:33:43 AM
<input type="checkbox"/>	Root	Netatmo Thermostat Module	UltraSmartThermostat3 Plugin	Bathroom [Thermostaat]	Netatmo Thermostat Module	
<input type="checkbox"/>	100%	Netatmo Thermostat Module	UltraSmartThermostat3 Plugin	Battery Percentage	Netatmo Battery	Today 10:33:43 AM
<input type="checkbox"/>	High	Netatmo Thermostat Module	UltraSmartThermostat3 Plugin	Battery Status	Netatmo Battery	Today 11:24:10 AM
<input type="checkbox"/>	34 Minutes Ago	Netatmo Thermostat Module	UltraSmartThermostat3 Plugin	Last Update	Netatmo Update	Today 11:44:17 AM
<input type="checkbox"/>	Firmware 41	Netatmo Thermostat Module	UltraSmartThermostat3 Plugin	Module Firmware Version	Netatmo Firmware	Today 10:33:43 AM
<input type="checkbox"/>	Full	Netatmo Thermostat Module	UltraSmartThermostat3 Plugin	RF Signal Status	Netatmo RF	Today 10:33:43 AM
<input type="checkbox"/>	N/A	Netatmo Thermostat Module	UltraSmartThermostat3 Plugin	Setpoint End Time	Netatmo Setpoint Time	Today 10:33:44 AM
<input type="checkbox"/>	Program	Netatmo Thermostat Module	UltraSmartThermostat3 Plugin	Setpoint Mode	Netatmo Setpoint Mode	Today 10:33:44 AM
<input type="checkbox"/>	16 °C	Netatmo Thermostat Module	UltraSmartThermostat3 Plugin	Setpoint Temperature	Netatmo Setpoint	Today 11:24:10 AM
<input type="checkbox"/>	20.7 °C	Netatmo Thermostat Module	UltraSmartThermostat3 Plugin	Temperature	Netatmo Temperature	Today 10:33:44 AM

Modifying an Existing Netatmo Thermostat Device

You can modify an UltraSmartThermostat3 device the same way you modify any other HomeSeer device. Simply click on the device name from the HomeSeer device page, and then change the device properties as needed.

Note: Once a HomeSeer device is created, the plug-in will not overwrite any of the device properties, so feel free to modify the name, location and location2 properties as you see fit.

Deleting an Existing Netatmo Thermostat Device

You can delete an UltraSmartThermostat3 device the same way you delete any other HomeSeer device. From the HomeSeer device web page, click the device name, then from the HomeSeer modify device web page, click the Delete button. However, if the device is still associated with your Netatmo Thermostat, then the device will be re-created during the next thermostat reading.

UltraSmartThermostat3 HSPI Triggers

UltraSmartThermostat3 Triggers Supported

To be determined

UltraSmartThermostat3 HSPI Trigger Actions

UltraSmartThermostat3 Actions Supported

To be determined

UltraSmartThermostat3 HSPI Trigger Conditions

UltraSmartThermostat3 HSPI conditions allow you to specify that certain conditions must exist before a HomeSeer event will run.

UltraSmartThermostat3 Conditions Supported

To be determined

UltraSmartThermostat3 HSPI API Reference

To be determined