

UltraNetatmo3 HSPI User's Guide

A HomeSeer HS3 plug-in to connect to the
Netatmo Urban Weather Station.

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ultrajones@hotmail.com
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Introduction

UltraNetatmo3 is a HomeSeer3 plug-in that allows you to use HomeSeer to track and monitor temperature, humidity, barometric pressure, rainfall, CO2 levels, noise level and weather alerts using the Netatmo Urban Weather Station.

The Netatmo Urban Weather Station includes an indoor module that measures temperature, humidity, barometric pressure, CO2 levels, and noise levels inside your home. It also includes an outdoor module that measures outdoor temperature and humidity levels.

The Netatmo Urban Weather Station also supports up to 3 optional indoor modules that measures temperature, humidity and CO2 levels. In addition, the Netatmo Urban Weather Station supports an optional rain gauge that measures rainfall and an optional wind gauge that measure wind speed and direction.

Intended Audience

This document is intended for the HomeSeer user that has chosen to install and configure the UltraNetatmo3 HomeSeer Plug-in.

UltraNetatmo3 HSPI Overview

How It Works

- UltraNetatmo3 HSPI queries the Netatmo Urban Weather Station API servers to obtain reading from your Netatmo Urban Weather Station.
- UltraNetatmo3 HPSI automatically creates HomeSeer devices depending on which modules are connected.

Features

- Multiple threading allows UltraNetatmo3 to query the Netatmo API servers for station 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.
- The Netatmo Urban Weather Station with or without the optional modules or gauges.

UltraNetatmo3 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 “**Weather Plug-ins**” category, then click the checkbox next to the UltraNetatmo3 (Netatmo Urban Weather Station) 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 UltraNetatmo3 plug-in under Installed Plug-Ins, then enable it.

UltraNetatmo3 HSPI Setup

Before you begin to configure the UltraNetatmo3 plug-in, you’ll need to make sure your Netatmo Urban Weather Station has been properly registered with Netatmo. Follow the instructions from the Netatmo website to configuration your Netatmo Urban Weather Station and optional modules and gauges.

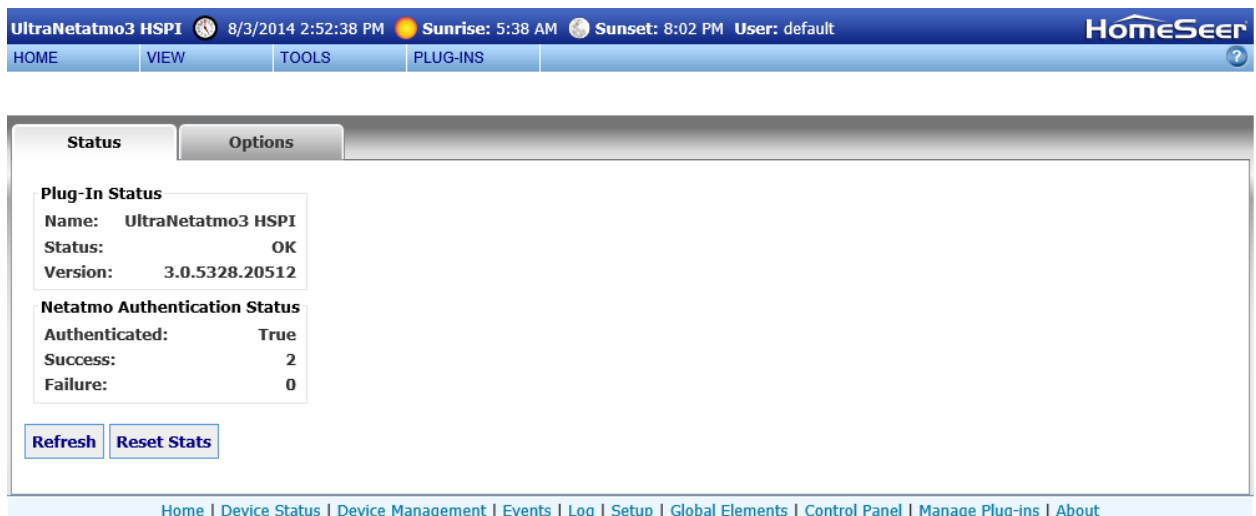
Enter Your Netatmo User Credentials

1. From the UltraNetatmo3 > 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 UltraNetatmo3 HSPI Netatmo client application.

UltraNetatmo3 HSPI Configuration

Web Page Layout

The UltraNetatmo3 plug-in has seven web pages that provide access the available features of the plug-in.



The screenshot shows the HomeSeer web interface for the UltraNetatmo3 HSPI plug-in. The top navigation bar includes links for HOME, VIEW, TOOLS, and PLUG-INS. The main content area is divided into two tabs: Status and Options. The Status tab is active, showing the following information:

Plug-In Status	
Name:	UltraNetatmo3 HSPI
Status:	OK
Version:	3.0.5328.20512

Netatmo Authentication Status	
Authenticated:	True
Success:	2
Failure:	0

At the bottom of the status section, there are two buttons: Refresh and Reset Stats.

The footer of the page contains a navigation menu with links: Home | Device Status | Device Management | Events | Log | Setup | Global Elements | Control Panel | Manage Plug-ins | About.

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.

UltraNetatmo3 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. **Station Update** – Specify how often to check the Netatmo API servers for station readings.
7. **Register Link** – If set to Yes, the UltraNetatmo3 button will be displayed on all web pages.
8. **Debug Mode** – If set to Yes, the plug-in will write verbose logging to the HomeSeer log file.

Adding Netatmo HomeSeer Devices

The UltraNetatmo3 plug-in automatically adds the supported HomeSeer devices depending on what weather station modules you have connected.

Temperature Devices

The temperature device tracks the current temperature reading from the station device or module.

Humidity Devices

The humidity device tracks the current humidity reading from the station device or modules.

CO2 Device

The CO2 device tracks the current CO2 readings from the primary weather station or the optional indoor modules.

Rain Devices

The rain devices track the rainfall from the Netatmo Rain gauge. The rainfall devices are “Rain”, “Rain-Hour” and “Rain-Today”.

Wind Devices

The wind devices track the wind speed and direction from the Netatmo Wind gauge. The wind devices are “Wind-Direction”, “Wind-Strength”, “Gust-Direction”, “Gust-Strength” and “Gust-Strength-Max”.

Pressure Devices

The pressure device tracks the barometric pressure from the primary weather station. Pressure readings are not available on the outdoor module or any of the optional indoor modules.

Noise Devices

The noise device tracks the dB level from the primary weather station. Noise levels are not available on the outdoor modules or any of the optional indoor modules.

Netatmo State

This HomeSeer device allows you to enable or disable the updates from the Netatmo Urban Weather Station.

Modifying an Existing Netatmo Device

You can modify an UltraNetatmo3 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 Device

You can delete an UltraNetatmo3 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 Urban Weather Station, then the device will be re-created during the next station reading.

UltraNetatmo3 HSPI Triggers

This plug-in does not have any HomeSeer triggers defined. However, you can still create an event trigger using the HomeSeer device. As an example, you can trigger a HomeSeer event whenever the Netatmo main module reports a noise level great than 50 dB.

UltraNetatmo3 HSPI Trigger Actions

This plug-in does not have any HomeSeer trigger actions defined.

UltraNetatmo3 HSPI Trigger Conditions

The plug-in does not currently have any conditions configured

UltraNetatmo3 HSPI API Reference

To be determined