UltraECM HSPI User's Guide

A HomeSeer HS2 plug-in for the Brultech Energy Consumption Monitors.

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Table of Contents

Introduction
Intended Audience4
UltraECM HSPI Overview
How It Works
Features4
Requirements4
UltraECM HSPI Installation5
Downloading the HomeSeer Plug-in5
Installing the HomeSeer Plug-in5
UltraECM HSPI Setup6
Initial Setup Checklist6
UltraECM HSPI Configuration9
Web Page Layout9
Screenshot9
Options9
Monitors9
Devices
Connection Device10
Database Device
Supported HomeSeer Devices10
Adding a UltraECM Device
Screenshot12
Modifying an Existing UltraECM Device12
Deleting an Existing UltraECM Device12
UltraECM Charts12
Screenshot13
UltraECM HSPI Triggers
UltraECM HSPI Trigger Actions
UltraECM HSPI Trigger Conditions

Introduction

UltraECM is a HomeSeer2 plug-in for the Brultech Energy Consumption Monitors. The plug-in reads energy data forwarded by the Brultech Engine Software providing HomeSeer a view into the electrical power consumption of your home.

Intended Audience

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

UltraECM HSPI Overview

The Brultech ECM-1240 is a multi-channel Energy Consumption Monitor (ECM) designed for use with residential electrical systems. The ECM-1240 is then connected to the Brultech Engine software running on the HomeSeer computer allowing the UltraECM HSPI to display and graph energy usage in your home.

How It Works

The UltraECM HSPI connects to the Brultech Engine software via a TCP network connection. The forwarded data packets sent from the Engine software can be buffered and averaged to reduce loads for ECM units configured to send frequent updates. The UltraECM plug-in provides real-time access to Watts, Voltage, Amps, and cumulative KWh. The plug-in allows you to create a HomeSeer device for just the ECM devices you want HomeSeer to display and react to.

Features

- Multiple threading allows UltraECM HSPI to communicate with the Brultech Engine software without disrupting the performance of HomeSeer.
- Support for up to 6 Brultech ECM-1240 units when connected to the Brultech Engine software.
- Create only the HomeSeer devices you need to track energy usage in your home.
- Error Try/Catch logic to ensure plug-in doesn't fail with an unhandled exception.

Requirements

- Homeseer 2.2 or greater.
- One or more of the Brultech ECM-1240 units.
- The Brultech Engine software running on your HomeSeer system or another computer on your local network.

UltraECM HSPI Installation

Downloading the HomeSeer Plug-in

1. From your HomeSeer web page, select the Updater button.



2. Click the Next button until you find the entry for UltraECM, then click the checkbox to mark the plug-in for installation.

Yes	UltraECM (Brultech Energy Consumption Monitor)	Plug-in 1.1.4379.17668 1.1.4379.17668	\$19.95	Ultrajones
	Release Info Learn More			

- 3. Click the Next button to begin downloading the UltraECM plug-in package.
- 4. Restart HomeSeer once you see the following message displayed:

Update Download Status							
Status	Update						
Downloaded Successfully	UltraECM (Brultech Energy Consumption Monitor)						

Installing the HomeSeer Plug-in

1. During startup, HomeSeer will automatically launch the plug-in installer. Simply step though the plug-in installer wizard to install and enable the HomeSeer plug-in.



Once the installer finishes, the UltraECM plug-in should be enabled and ready for use.
 HomeSeer Web Control

2/5/2	🌒 2/5/2012 11:54:15 AM 😑 Sunrise: 6:53 AM 🌖 Sunset: 5:03 PM User: default											
Start	Home	Status	Events	Log	Control	TV Timer	Setup	VRemind	Updater	About	Help	Log Out
UltraECM			2									

UltraECM HSPI Setup

Before you begin to configure the UltraECM plug-in, you'll need to make sure you complete the installation and configuration of each Brultech ECM unit connected to the Brultech Engine software. Refer to the Brultech documentation for additional information.

Initial Setup Checklist

- 1. **Brultech ECM-1240 Installation** Refer to the Brultech ECM-1240 Install Guide and ECM-1240 User Manual on how to install and configure the energy consumption monitors.
- Brultech Engine Installation Refer to the Brultech ECM Engine Manual, Engine Quick Start and Engine Setup Videos on how to install and configure the Engine software. This documentation is available under the Customer Login / ECM 1240 Registered User Support section of the Brultech website <u>http://www.brultechech.com</u>.

BCM Engine (c) Bruitech 2009 Version Version: 2.48 Reg ID = ECM1240. Serial Connection B Port #5 is now open. File Configuration DataView Forward Data Database View Status Log Help	
	t to all XBee Devices Select Device 💌
	Pulse Counting
Communication Ports Serial Port A Serial Port B Serial Port C TCP/IP Port A TCP/IP Port B Open Port CDM Port Beud rate Packets Rovd Close Port Close Port Beud rate Packets Rovd Starts Reserved: 16	Common Commands Start/Stop Realtime Start Stop
Devices Search for XBee Using Single NUMBER OF DEVICES: 2	View Device Settings Setal/Device Binding You may manually enter the device setial mmber into the box below or use the "Read Device SN" button to fetch it trom the device. Device Setial# Read Device SN Druce the setial number is lated in the
Database Copy DB Path to Clipboard C-VProgramData\Brutech\ecm1.db3	box above, select the device to be bound to ["Select Device" at the top right) then click the "Bind" button below. Bind to Device A
Deladase is Disabled DB Write DK DB write in 5 seconds. DB Buffer = 10 Write buffered data	to DB every (sec): 10 Accept

Screenshot showing 2 EMC-1240 units connected:

Once the Engine software is properly configured, select Data View > Tabular Data and confirm the inputs channels are configured and the Power Watt for each channel appears to be accurate.

💡 Real Time Display					
	Power Watt	Current Amps	Energy KWh	Last Update	VOLT
Main Panel	2647 W	20.5 A	12834532.11 KWh	13:12:57	126.4 V
Air Compressor	0 W 0	0.1 A	9774226.694 KWh		1.00.7
Dishwasher	1 W		300.588 KWh		DEVICE A
Laundry	373 W		116.68 KWh		DEVICEA
Sump Pump	6 W		31.979 KWh		DEVICE B
Fumace/Fan	8 W		259.189 KWh		
Automation	160 W		758.831 KWh		DEVICE C
Light Group A	42 W	0.5 A	23823283.122 KWh	13:12:57	
Light Group B	318 W	3.4.A	1121.96 KWh		
Basement Plugs	449 W		1109.453 KWh		
Basement Lights	791 W		507.666 KWh		
Kitchen Plugs	140 W		500.775 KWh		
Light Group C	514 W		605.358 KWh		
GDD	1 W		32.133 KWh		

Screenshot of the Engine Real Time Display:

- 3. **Brultech Engine Data Forwarding Configuration** Complete the following steps to enable data forwarding to the UltraECM HSPI.
 - a. From the Engine menu, select Forward Data > Home Automation Plugin.
 - b. On the Data Forwarding dialog window, select the Custom tab.
 - c. Under the "Forward Data via TCP/IP (Server)", enter port 7080, select ASCII, then select the Enable checkbox.

Data Forwarding			
CQC	Custom	Other	
Luc	Forward Data Via TCP/IP (Dient) IP Address: 127 000 000 001 Port: 7001 Enable Connect Disconnect 127.0.01 Status:		
		' Binary ASO	
			Close

Brultech Engine Software Data Forwarding Screenshot:

4. Start HomeSeer and ignore the UltraECM errors indicating the ECM interface is disabled. Select UltraECM > Options, then enter the IP address of the system running the Brultech Engine software as shown in the following screenshot:

2/5/2012	1:22:18		nrise: 6:53	SAM) SI		M User: def					Hom	eSeer
Start H	ome	Status	Events	Log	Control	TV Timer	Setup	VRemind	Updater	About	Help	Log Out
UltraECM												
Status	Op	tions	Monitor	s De	vices	Charts						
2111		100					-					
Bruitech Eng	gineG 9	Software										
IP Address:												
IP Port:		708	0									
Data Buffer:		01	 packets 									
Web Page A	ccess											
Authorized User	Roles:	<u> </u>	Suest 🔽 Ad	lmin 🛄 Norn	nal 📃 Local							
Application (Option	s										
Register Link:		Yes	•									
Debug Mode:		No										

5. Restart HomeSeer to allow the plug-in to properly initialize the UltraECM HomeSeer devices and establish the initial connection to the Brultech Engine software. The HomeSeer status web page should indicate the UltraECM database connection is opened and ECM connection status is connected as shown by the following screenshot:

Device	Device List: Sorted by Code, Ascending Turn Off Sorting										
		Location	Grouping	Name	Code	Туре	Last Change	Control			
E 🖂	opened	UltraECM Plugin	Plug-ins	Database Connection	.1	UltraECM	Today 11:50:36 AM	Open Close			
🗷 🗖	Onnected:192.168.2.12	UltraECM Plugin	Plug-ins	ECM Connection State	.2	UltraECM	Today 11:50:36 AM	Connect Disconnect			

UltraECM HSPI Configuration

Web Page Layout

The UltraECM plug-in has five web pages that provide access to the available features of the plug-in.

Screenshot

HSPI	HSPI UltraECM - Status											
- 🚯 - 2/5/2	🚯 2/5/2012 1:31:58 PM 😑 Sunrise: 6:53 AM 🌖 Sunset: 5:03 PM User: default										HOMESEER	
Start	Home	Status	Events	Log Control	TV Timer	Setup	VRemind	Updater	About	Help	Log Out	
UltraECM		100	\mathbf{Y}			_						
Status	0	ptions	Monitors	Devices	Charts							

The available web pages are as follows:

- 1. **Status** Displays the UltraECM HSPI plug-in status, Brultech Engine connection status, database status, and database statistics.
- 2. **Options** Displays and allows you to change the options associated with the plug-in.
- 3. **Monitors** Displays and allows you to rename the channels associated with each ECM-1240 connected to the Engine software.
- Devices A web page that allows you to display the current status of all ECM units and associated channels and provides the ability to automatically create the desired HomeSeer devices.
- 5. **Charts** A web page that allows you to chart the energy usage of each ECM unit and associated channels.

Options

All options are set from the Options web page. The following options are supported:

- 1. IP Address Enter the IP address of the system running the Brultech Engine software.
- 2. **IP Port** Enter the TCP/IP port of the Brultech Engine software. The default is 7080.
- Data Buffer Select the number of packets to buffer and average before updating the underlying HomeSeer devices and database.
 Note: If the ECM units are configured to buffer packets, then select 1 packet. If your ECM units send updates every second, then the recommend value is 30 packets.
- 4. **Authorized User Roles** Specify the HomeSeer uses authorized to access the UltraECM web page.
- 5. **Register Link** If set to Yes, the UltraECM button will be displayed on all web pages.
- 6. **Debug Mode** If set to Yes, the plug-in will write verbose logging to the HomeSeer log file.

Monitors

The UltraECM HSPI allows you to name the ECM channels for each ECM unit connected to the Engine software. Simply type the correct name in the associated textbox, then click the Save button.

HSPI UltraECM - Monitors

Sta	nrt Home	Status	Events Log	Control TV	Timer Setup	VRemind	Updater	About	Help	Log Ou
UltraECM										
Status Options Monitors Devices Charts										
-	14									
Brultech Energy Consumption Monitors Detected										
Brul	tech Energy (Consumption	Monitors Detec	ted						
Brul Unit	tech Energy (Channel 1	Consumption Channel 2		ted Aux 2	Aux 3	Aux 4	Αι	ıx 5		
					Aux 3 Sump Pump	Aux 4 Furnace/Fan				

Devices

Connection Device

This HomeSeer device is automatically created and manages the connection to the Engine software. If the plug-in happens to lose connection for whatever reason, you can force a connection by selecting reconnect from the Control options. You can also halt the watchdog reconnection functionality by selecting disconnect from the Control options.

Database Device

This HomeSeer device is automatically created and manages the connection to underlying database.

Supported HomeSeer Devices

UltraECM HSPI supports the ability to manually create over 20 HomeSeer devices for each ECM-1240. However, this doesn't mean you need to create that many devices. Review the list below and create just the devices you need to monitor your home energy usage.

watts		
Ch1 Power	Current watts of channel 1	
Ch2 Power	Current watts of channel 2	
Ch1 Polarized Power	Energy flowing from the grid for channel 1	
Ch2 Polarized Power	Energy flowing from the grid for channel 2	
AUX1 Power	Current watts of auxiliary channel 1	
AUX2 Power	Current watts of auxiliary channel 2	
AUX3 Power	Current watts of auxiliary channel 3	
AUX4 Power	Current watts of auxiliary channel 4	
AUX5 Power	Current watts of auxiliary channel 5	

Watts

Energy

AC Voltage	Current AC voltage	
Ch1 Current (Amps)	Channel 1 amps	
Ch2 Current (Amps)	Channel 2 amps	

Ch1 Kilowatt-Hour	Cumulative channel 1 kilowatt hours	
Ch2 Kilowatt-Hour	Cumulative channel 2 kilowatt hours	
AUX1 Kilowatt-Hour	Cumulative auxiliary channel 1 kilowatt hours	
AUX2 Kilowatt-Hour	Cumulative auxiliary channel 2 kilowatt hours	
AUX3 Kilowatt-Hour	Cumulative auxiliary channel 3 kilowatt hours	
AUX4 Kilowatt-Hour	Cumulative auxiliary channel 4 kilowatt hours	
AUX5 Kilowatt-Hour	Cumulative auxiliary channel 5 kilowatt hours	

Misc

Device Serial Number

The serial number of the ECM-1240 unit

Screenshot

- The second sec	art	12 2:59:18 PN Home	Status	Even		unset: 5:03 F	TV Tin	_	Setup	VRer	nind	Updater	Δ	bout	Hel	-	See Log Ou
	172		Status	J	Log	control			occup	VICE	mild	opuater	1	bout	nei		LUG UU
<i></i>	aECM		$\overline{\nabla}$														
5	Status	Optio	ons	Monit	tors D	evices	Chart	is									
IltraE	CM Dev	ice Type: W	/atts 👻	UD	date												
	Devi	los l'yper															
	Input		ame		Label	Туре	Value	Li	ast Chang	ge	Home	Seer Dev	/ice				
A	CH1	Ch1 Power (Watts)		Main Panel	ECM Watts	3093	2/5/2	012 2:59:	18 PM							
А	CH2	Ch2 Power (Watts)		AC Unit	ECM Watts	0	2/5/2	012 2:51:	03 PM							
A	CH1	Ch1 Polarize	d Power (W	/atts) I	Main Panel	ECM PWatts	3093	2/5/2	012 2:59:	18 PM							
A	CH2	Ch2 Polarize	d Power (W	/atts) /	AC Unit	ECM PWatts	0	2/5/2	012 2:51:	03 PM							
A	AUX1	Aux1 Power	(Watts)	l	Unused	ECM Watts	1	2/5/2	012 2:59:	18 PM							
A	AUX2	Aux2 Power	(Watts)	I	Dishwasher	ECM Watts	518	2/5/2	012 2:59:	18 PM							
A	AUX3	Aux3 Power	(Watts)	5	Sump Pump	ECM Watts	6	2/5/2	012 2:59:	18 PM							
A	AUX4	Aux4 Power	(Watts)	I	Furnace/Fan	ECM Watts	8	2/5/2	012 2:51:	18 PM							
A	AUX5	Aux5 Power	(Watts)		Automation	ECM Watts	160	2/5/2	012 2:59:	18 PM							
в	CH1	Ch1 Power (Watts)	I	Light Group A	ECM Watts	41	2/5/2	012 2:59:	18 PM							
в	CH2	Ch2 Power (Watts)	I	Light Group B	ECM Watts	425	2/5/2	012 2:59:	18 PM							
в	CH1	Ch1 Polarize	d Power (W	/atts) I	Light Group A	ECM PWatts	0	2/5/2	012 2:51:	03 PM							
в	CH2	Ch2 Polarize	d Power (W	/atts) I	Light Group B	ECM PWatts	0	2/5/2	012 2:51:	03 PM							
в	AUX1	Aux1 Power	(Watts)	1	Basment Plugs	ECM Watts	458	2/5/2	012 2:59:	18 PM							
в	AUX2	Aux2 Power	(Watts)	I	Basment Light	ECM Watts	636	2/5/2	012 2:59:	03 PM							
в	AUX3	Aux3 Power	(Watts)	1	Kitchen Plugs	ECM Watts	144	2/5/2	012 2:59:	18 PM							
в	AUX4	Aux4 Power	(Watts)	I	Light Group C	ECM Watts	957	2/5/2	012 2:59:	18 PM							
В	AUX5	Aux5 Power	(Watts)	(GCC	ECM Watts	1	2/5/2	012 2:59:	03 PM							

Adding a UltraECM Device

You can add HomeSeer devices from the UltraECM > Devices web page. Simply select the ECM device type from the drop down, then press the Update button. Once the desired ECM device type grouping is displayed, simply select the checkbox for each HomeSeer device you want to create, then click the Save button. Repeat these steps until you have created all the HomeSeer devices you want to create.

Screenshot

	2/5/20	12 2:59:18	PM 😑 Su	inrise:	6:53 AM 🌖 :	Sunset: 5:03	PM Use	: default					Ŀ	lome	Seer
St	art	Home	Status	Ever	nts Log	Contro	I TV Ti	ner S	etup	VRemine	l Updater	Abou	ut	Help	Log Out
Ult	raECM			\Diamond											
	Status	0	otions	Mon	itors I)evices	Char	S							
-	7/17		1,000												
JltraE	CM Dev	rice Type:	Watts 💌	U	odate										
ECI	/ Devi	CES													
Unit	Input		Name		Label	Туре	Value	Last	t Chang	e Hor	neSeer Devi	ce 🔲			
А	CH1	Ch1 Powe	r (Watts)		Main Panel	ECM Watt	s 3093	2/5/201	2 2:59:1	8 PM 📃					
А	CH2	Ch2 Powe	r (Watts)		AC Unit	ECM Watt	s 0	2/5/201	2 2:51:0	з РМ 📃					
А	CH1	Ch1 Polar	ized Power ((Watts)	Main Panel	ECM PWa	tts 3093	2/5/201	2 2:59:1	.8 PM 📃					
A	CH2	Ch2 Polar	ized Power ((Watts)	AC Unit	ECM PWa	tts 0	2/5/201	2 2:51:0	з РМ 📃					
А	AUX1	Aux1 Pow	er (Watts)		Unused	ECM Watt	s 1	2/5/201	2 2:59:1	.8 PM					
A	AUX2	Aux2 Pow	er (Watts)		Dishwasher	ECM Watt	s 518	2/5/201	2 2:59:1	.8 PM 📃					
А	AUX3	Aux3 Pow	er (Watts)		Sump Pump	ECM Watt	s 6	2/5/201	2 2:59:1	.8 PM 📃					
A	AUX4	Aux4 Pow	er (Watts)		Furnace/Fan	ECM Watt	s 8	2/5/201	2 2:51:1	.8 PM 📃					
A	AUX5	Aux5 Pow	er (Watts)		Automation	ECM Watt	s 160	2/5/201	2 2:59:1	.8 PM 📃					
в	CH1	Ch1 Powe	r (Watts)		Light Group A	ECM Watt	s 41	2/5/201	2 2:59:1	.8 PM 📃					
в	CH2	Ch2 Powe	r (Watts)		Light Group E	ECM Watt	s 425	2/5/201	2 2:59:1	.8 PM 📃					
в	CH1	Ch1 Polari	ized Power ((Watts)	Light Group A	ECM PWa	tts 0	2/5/201	2 2:51:0	з РМ 📃					
в	CH2	Ch2 Polar	ized Power ((Watts)	Light Group E	ECM PWa	tts 0	2/5/201	2 2:51:0	з РМ 📃					
в	AUX1	Aux1 Pow	er (Watts)		Basment Plug	s ECM Watt	s 458	2/5/201	2 2:59:1	.8 PM 📃					
в	AUX2	Aux2 Pow	er (Watts)		Basment Ligh	ts ECM Watt	s 636	2/5/201	2 2:59:0	з РМ 📃					
в	AUX3	Aux3 Pow	er (Watts)		Kitchen Plugs	ECM Watt	s 144	2/5/201	2 2:59:1	.8 PM 📃					
в	AUX4	Aux4 Pow	er (Watts)		Light Group (ECM Watt	s 957	2/5/201	2 2:59:1	8 PM 📃					
в	AUX5	Aux5 Pow	er (Watts)		GCC	ECM Watt	s 1	2/5/201	2 2:59:0	з РМ 📃					

Modifying an Existing UltraECM Device

You can modify an UltraECM 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 UltraECM Device

You can delete an UltraECM 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.

UltraECM Charts

You can chart the energy usage over time from the Charts web page. Simply select the ECM unit, the duration, the ending date and time, the ECM-1240 channels to chart then click the Build Chart button.

Screenshot

		_	_	am 🦻 Su		3 PM User: de					Hom	
Start	Home	Status	Events	Log	Contro	ol TV Timer	Setup	VRemind	Updater	About	Help	Log C
ltraECM												
Status	(Options	Monitors	De	vices	Charts						
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:54:	:22:0	22	222:	56:	26	2:57:15	:57:4	0 00 0 0 00 0	85	26	265	
14	14	15 15	14 14	14 14	15 1	Date	10 1	4 14 IV		s 15	14	
•	UX2 - Dis	hwasher 🔍 A	.UX4 - Furnace/F	an •AUX	5 - Automati	on •AUX3 - Si	imp Pump 🎈	CH1 - Main Pa	nel CH2 -	AC Unit		
	- 144		. For the las	t E minuto		ding 🔣 Sund	av Eshruar	05 2012	. 16	.00 🔻		
						_		y 05, 2012	At 15	.00 +		
						D 🛛 AUX5 - A	utomation					
CH2 - A	2 Unit	🗹 AUX2 -	Dishwasher	🛛 AUX4 - F	urnace/Fa	n						

HSPI UltraECM - ChartSelection

Build Chart

If you have multiple ECM-1240 units connected to your Engine software, then you can display the energy usage of the other channels by selecting another ECM Unit, the duration, the ending date and time, the ECM-1240 channels to chart then click the Build Chart button.

9 2/5/2	012 2:59:58	B PM 😑 Su	nrise: 6:53 A	M 🌖 Su	nset: 5:03 P	M User: def	ault				Hôm	èSee
Start	Home	Status	Events	Log	Control	TV Timer	Setup	VRemind	Updater	About	Help	Log Ou
UltraECM												
Status	0	ptions	Monitors	De	vices	Charts						
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2:00	2:55:15 PM	2:55:30 PM 2:55:45 PM	2:56:00 PM 2:56:15 PM	2:56:30 PM 2:56:45 PM	2:57:00 PM 2:57:15 PM	2:57:30 PM 2:57:45 PM	2:58:00 PM	2:58:30 PM	2:59:00 PM	2:59:30	59:45	
2:5	5:2	2:5	2:5	2:5		ate	2:5	2:5	5.2	5.5	2:5	
AUX2 - B	asment Lights	5 • AUX4 - L	ight Group C 🔍	AUX1 - Ba			AUX3 -	Kitchen Pluas	CH1 - Light	t Group A 🔍	CH2 -	
	-				Light Grou			-	-			
ECM Unit I	P - Wat	to v -1	t For the last	E minuto		Eurode	. Eshruar	05 2012	16	.00 🔻		
						_		-	At 15	.00 •		
	-		- Basment Plu	-		-	UX5 - GCC					
🗹 CH2 - L	ight Group.	B 🗹 AUX2	- Basment Lig	hts 🛛 Al	JX4 - Light G	roup C						

UltraECM HSPI Triggers

This plug-in does not have any HomeSeer triggers defined.

UltraECM HSPI Trigger Actions

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

UltraECM HSPI Trigger Conditions

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