



# InThrMa Auto Demand Response Platform



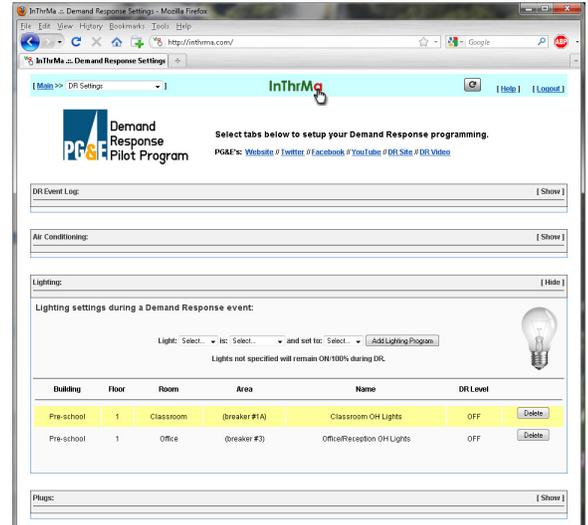
Easy to use Auto Demand Response solutions for the light-commercial market

## Product Overview

InThrMa's Auto Demand Response (AutoDR) solution provides business owners a comprehensive yet cost effective way to manage and reduce energy use during peak demand periods. You specify how HVAC, lights and appliances will respond when electricity rates spike and the InThrMa Platform activates your profile when the utility signals a peak pricing event. The InThrMa platform utilizes OpenADR, an industry standard protocol for DRAS/Utility connectivity.

## Ease of Deployment

InThrMa's Auto Demand Response Platform allows you to implement a custom AutoDR strategy suited to your site's unique needs. From your personal dashboard at [www.inthрма.com](http://www.inthрма.com) you configure your site's specific loads (HVAC, Lighting, Plugs) and select DR settings appropriate for each load given your business, environmental and safety needs. We take care of the rest. When a Demand Response event is first scheduled by the Utility, an email is sent to alert you of the upcoming DR event. On the day of the event, 30 minutes prior to the start of the DR event, another reminder email is sent. Once the DR event starts, electrical & HVAC loads are adjusted according to your profile. At the end of the DR event loads return to normal levels, in a staggered fashion, to eliminate load spikes. At any time during a DR event the site admin can opt-out and return loads to their normal levels.



## InThrMa Auto Demand Response Platform Features and Benefits:

Feature	Benefit
Controls HVAC, Lighting & Plug Loads	You can customize your DR strategy to balance savings with comfort.
Easy to use web based DR programming and analysis tools	Customize and manage your DR profile from any web browser at any time.
Staggered load restarting	At the end of each DR event, loads are returned to pre-DR operating levels. The InThrMa AutoDR Platform will stagger equipment starts to minimize any risk associated with a large local demand.
Low power consumption equipment	Minimize operational costs.
OpenADR compliant platform	By utilizing the utility industry's standard for Demand Response interoperability we ensure compatibility with your utility's DR signals.
Available as rack-mountable or small-footprint form factors	Fits alongside existing equipment.

## Timeline of an Auto Demand Response Event:

Timeline	2pm Monday	1:30pm Tuesday	2pm Tuesday	6pm Tuesday
	Day prior to DR event	Day of DR event		
Notifications	Email reminder sent	30 minute email reminder sent	Email alert notifying site admin of AutoDR event	Email notifying site admin that AutoDR event has ended
Actions			AutoDR event starts. Electrical loads are reduced according to customized profile	AutoDR event ends. Electrical loads return to normal levels



**InThrMa's rack-ready  
Auto Demand Response Platform appliance**



**Small-footprint Auto Demand Response  
Platform appliance**



**IP enabled thermostat for HVAC control**

**Beyond Auto Demand Response:**

Once you have deployed the InThrMa Auto Demand Response Platform you have put in place the foundation for a sophisticated building automation system. The Beckhoff-based lighting and plug loads control module by WEGG3 provides site administrators virtually unlimited customization options for lighting and plug loads. Everyday usage scenarios for lighting loads, such as interior, task, decorative and outdoor can be automated and customized to your specific application needs. Plug loads such as water coolers, signs, copiers, industrial equipment and other electric appliances can be placed on automated scheduling for energy efficiency. For example, a water cooler can be programmed to operate only during business hours and exterior lighting can be programmed for evening and night operation. WEGG3 will work with you to customize and implement a complete site automation platform.



**WEGG3 lighting and plug loads control module**

**System Requirements**

Below are the hardware, networking and software requirements to install and use InThrMa Auto Demand Response Platform.

<b>Hardware</b>	All necessary equipment is supplied by InThrMa
<b>Software</b>	An active intrhma.com subscription
<b>Network</b>	1) IP based network at each deployment site 2) Broadband network connectivity

**For More Information**

Click: <http://www.inthrma.com/demandresponse/>

Call: your InThrMa account representative

Email: [info@intrhma.com](mailto:info@intrhma.com)

**InThrMa** provides both passive and active HVAC management with an award winning SaaS energy platform. InThrMa's Auto Demand Response Platform was selected by Pacific Gas & Electric and Lawrence Berkeley National Labs for AutoDR field trials in Spring 2010.

**WEGG3** provides integration of building automation solutions and is currently one of the leading implementers of Beckhoff Automation for building applications in the US. Beckhoff's Industrial class I/O platform gives unlimited configurability options and WEGG3 has tailored control panel assembly and programming for quick installation and minimal on-site time.

[www.wegg3.com](http://www.wegg3.com)