



**Monitor Energy Usage For  
Improved Energy Management.**



# Essential Information For True Energy

## Delivering Key Information

Submetering allows facility managers to track energy costs by area, department, tenant and an individual piece of equipment when used with a building automation system. The information can be used for load shedding, creating an overall energy-savings plan, allocating costs and more.

- **Performance Monitoring** — Measure energy usage before and after implementing an energy-savings plan.
- **Load Shedding** — Avoid peak demand charges by reducing power levels during critical times.
- **Monitoring Main Circuits/Panels** — Determine where energy is being consumed and monitor specific equipment to detect trends.
- **Tenant Submetering** — Track tenant energy consumption for billing purposes.
- **Cost Allocation** — Monitor multiple points in a building to divide utility bills based on department consumption.

## On-The-Spot Readings

The H-Series family of submeters provides instant information right at the installed location. Plus, H-Series submeters are accuracy rated to ANSI 12.20, so they can be used for billing purposes where allowed by code.

H-Series submeters work seamlessly with controllers using Pulse, ModBus®, BACnet®, LON, EZ-7®, so compatibility with the building automation system is never an issue.

Installation is easy, too — with split core current sensors, you won't need to touch the building wiring, and the metal housing protects the installation from the elements.

## Energy Application Software

### WEBStation-AX based Energy Applications

- **WEBs-AX Energy Analytics:** An enterprise energy management application that is fully web based hosted on WEBs-AX Supervisor. You can analyze energy-usage and create easily understandable standard reports by profiling energy data over any period of time. Also powerful statistical analysis tools can determine energy correlations, perform cost calculations and what-if scenarios.
- **WEBs-AX Tenant Billing:** Tenant Billing Service is a Niagara<sup>AX</sup> based application which enables users to monitor tenant utility usage and create personalized invoices based on that usage. By utilizing this service, facility management can create fully customizable tenant invoices for multiple utility types.

### Stand-alone Energy Application

E-Mon Energy Software: You can monitor Honeywell electric meters on-site or off-site via EZ-7 protocols without using WEBs-AX.



The more your customers know about energy usage, the more they can look for energy-saving opportunities. From load shedding to cost allocation to energy management, with a variety of building automation controllers and energy-saving flexibility.



# Energy Management



usage from specific equipment, areas or tenants, opportunities or provide tenant-specific billing. From management, Honeywell H-Series submeters work to provide building managers with information



## Meet Renewable Energy Criteria

More than ever, builders and building owners are taking environmentally friendly initiatives to heart, and Honeywell submeters are key components of EPACT 2005, EISA 2007 and other renewable energy projects.

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ is the nationally accepted benchmark for the design, construction and operation of high-performance buildings, and Honeywell submeters offer many possible ways to earn LEED criteria points\*:

### Core and Shell

EA Credit 1 (3-21 Points)	Optimize Energy Performance
EA Credit 4 (4 Points)	On-site Renewable Energy
EA Credit 5.1 (3 Points)	Measurement and Verification – Base Building
EA Credit 5.2 (3 Points)	Measurement and Verification – Tenant Submetering
EA Credit 6 (2 Points)	Green Power

### Existing Buildings

EA Prerequisite 2	Minimum Energy Efficiency Performance
EA Credit 1 (1-18 Points)	Optimize Energy Efficiency Performance
EA Credit 2.1 (2 Points)	Existing Building Commissioning – Investigation and Analysis
EA Credit 2.2 (2 Points)	Existing Building Commissioning – Implementation
EA Credit 2.3 (2 Points)	Existing Building Commissioning – Ongoing Commissioning
EA Credit 3.1 (1 Point)	Performance Measurement – Building Automation System
EA Credit 3.2 (1-2 Points)	Performance Measurement – System-Level Metering
EA Credit 4 (1-6 Points)	On-site and Off-site Renewable Energy
EA Credit 6 (1 Point)	Emissions Reduction Reporting

### New Construction/Major Renovation

EA Prerequisite	Maximize Energy Performance
EA Prerequisite 2	Minimum Energy Performance
EA Credit 1 (1-19 Points)	Optimize Energy Performance
EA Credit 2 (1-7 Points)	On-site Renewable Energy
EA Credit 5 (1-3 Points)	Measurement and Verification
EA Credit 6 (1-2 points)	Green Power

### Commercial Interiors

EA Credit 3 (2-5 Points)	Measurement and Verification
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### Schools Rating System

EA Prerequisite 2	Minimum Energy Performance
EA Credit 1 (1-19 Points)	Optimize Energy Performance
EA Credit 2 (1-7 Points)	On-site Renewable Energy
EA Credit 5 (2 Points)	Measurement and Verification

\*LEED v3 published by USGBC (United States Green Buildings Council), April 2009.

# Product Selection Guide

Class 500 and Green Net Meter Selection Guide													
SERIES	CLASS	VOLTAGE		CURRENT	ENCLOSURE TYPE		PROTOCOL		GREEN NET OPTION		CURRENT SENSORS		
H	50	-	208	100-	J	JIC Steel	01	EZ-7 RS-485, EZ-7 Ethernet (Green Net meters only)	-N-	Green Class Net meter (only with 01 Protocol)		KIT	Split-core current sensors
		-	480	200-	R	NEMA 4X	02	MODBUS RTU, EZ-7 Ethernet	KIT	No options, split core current sensors			
		-	600	400-			03	BACnet MS/TP, EZ-7 Ethernet					
				800-			05	EZ-7 RS-485, BACnet IP					
				1600			06	Modbus RTU, Modbus TCP/IP					
				3200			07	LonWorks TP, EZ-7 Ethernet					

Example: H50-480400-J05KIT = Class 500 three phase, 480V 400A, steel enclosure, BACnet IP and RS-485 EZ-7 with three current sensors  
 H50-480400-J01-N-KIT = Class 500 three phase Green Net, 480V 400A, steel enclosure, Ethernet EZ-7 and RS-485 EZ-7 with three current sensors

Class 200 and Green Meter Selection Guide											
SERIES	CLASS	VOLTAGE		CURRENT	ENCLOSURE TYPE		GREEN NET OPTION		CURRENT SENSORS		
H	20	-	208	100-	J	JIC Steel	-G-	Green Class Meter	KIT	Split-core current sensors	
		-	480	200-	R	NEMA 4X	-D-	Demand			
		-	600	400-			KIT	No options, split core current sensors			
				800-							
				1600							
				3200							

Example: H20-208100-RKIT = Class 200 three phase, 208V 100A, NEMA 4X enclosure with three current sensors  
 H20-2081600R-D-KIT = Class 200 three phase, 208V 1600A, NEMA 4X enclosure, demand option, with three current sensors

Class 100 Selection Guide												
SERIES	CLASS	VOLTAGE		CURRENT	ENCLOSURE TYPE		CURRENT SENSORS					
H	10	-	2120	25-	J	JIC Steel	KIT	Split-core current sensors				
		-	3208	50-	R	NEMA 4X						
				100								
				200								

Example: H10-212025-JKIT = Class 100 single phase, 120V 25A, steel enclosure with one current sensor  
 H10-3208100JKIT = Class 100 single phase, 208V 100A, steel enclosure with two current sensors

Interval Data Recorder Selection Guide												
CLASS	# OF METERS	ENCLOSURE TYPE		PROTOCOL			CONNECTION					
HIDR-	8-	J	JIC Steel	02	MODBUS RTU, EZ-7 Ethernet		ST	Screw terminal connections, only available for HIDR-8 models				
	16			03	BACnet MS/TP, EZ-7 Ethernet		RJ	RJ connections				
				05	EZ-7 RS-485, BACnet IP							
				06	Modbus RTU, Modbus TCP/IP							
				07	LonWorks TP, EZ-7 Ethernet							
				11	EZ-7 RS-485, BACnet IP with modem							

Example: HIDR-8-J05ST = IDR for 8 meters, Steel enclosure, EZ-7 RS-485 and EZ-7 Ethernet with Screw Terminal connection option  
 HIDR-16J02RJ = IDR for 16 meters, Steel enclosure, Modbus RTU and EZ-7 Ethernet with RJ connection option



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Modbus<sup>®</sup> registered trademark of Modbus Organization, Inc.

EZ-7<sup>®</sup> registered trademark of E-Mon, LLC

LonWorks<sup>®</sup> is a trademark of Echelon Corporation.

## Learn More

For more information on Honeywell H-Series submeters and such as communication keys, additional current sensors, E-mon Energy software, EZ-7 Drive, call **1-800-466-3993** or visit [beyondinnovation.honeywell.com](http://beyondinnovation.honeywell.com).

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@honeywellcpro



## Automation and Control Solutions

Honeywell  
 1985 Douglas Drive North  
 Golden Valley, MN 55422-3992  
 1-800-466-3993  
[www.honeywell.com](http://www.honeywell.com)

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