



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



WATT-HOUR  
PULSE

RS-485  
NETWORK

ETHERNET

KW PEAK: 36.6 KW  
ON DATE: 04/14  
AT TIME: 00:30

MENU

SELECT



V3

VN

WHT

BLK

SENSOR 1

WHT

BLK

SENSOR 2

WHT

BLK

SENSOR 3

---

# Essential Information for True Energy Management

Submetering products and systems give users visibility into where and when energy is consumed in their buildings. Meters are used to monitor actual usage by department, tenant or common area and report back to computerized systems for billing, allocation, analysis and management.

For building owners submeters deliver the information they need to implement energy management programs including:

1. Cost Allocation
2. Tenant Billing
3. Integration with Building Management/Automation Systems
4. Energy Analysis
5. Energy Conservation and Green Building Initiatives

## Metering Applications

Submetering opportunities can be found in facilities of all types.

- Commercial Buildings
- Industrial Complexes
- Multi-Family Housing
- Government Facilities
- Education Campuses
- Healthcare Facilities

# What is the Correct Submeter for your Project?



Features and Functions	Class 100 (H10)	Class 200 (H20)	Class 320 (H32)	Class 340 (H34)	Class 500 (H50)
<b>Communicating</b>			•	•	•
<b>Revenue-grade</b>	•	•	•	•	•
<b>Expanded Features*</b>				•	
<b>Voltage</b>	120, 208, 277	120, 208, 277, 600	120, 208, 400 (380,415), 480, 600	120, 208, 400 (380,415), 480, 600	120, 208, 400 (380,415), 480, 600
<b>Amps</b>					
<b>Current</b>	25, 50, 100, 200	25HV, 100, 200, 400, 800, 1600, 3200	25HV, 100, 200, 400, 800, 1600, 3200	25HV, 100, 200, 400, 800, 1600, 3200	25HV, 100, 200, 400, 800, 1600, 3200
<b>Communications</b>			RS-485	RS-485, Ethernet	RS-485, Ethernet
<b>Dual protocol</b>					
<b>4-line display</b>			•	•	•
<b>Integrated Keypad</b>					
<b>On-board set-up via EZ7</b>			•	•	•
<b>Data Recorder</b>			•	•	•
<b>External Inputs</b>				2 *	2
<b>Pulse Outputs</b>				2	2
<b>Phase loss alarm (N.O. Contact)</b>					•
<b>Net metering</b>					•
<b>Branch circuit monitoring</b>					
<b>Power quality measurement</b>					
<b>Power demand measurement</b>	Optional				
<b>Field upgradeable Firmware</b>					
<b>Current Sensor Voltage (0-2 V or 0 – 0.333V)</b>			0-2 volt	0-2 volt	0-2 volt
<b>Current sensor options</b>	Split core standard, solid core available	Split core standard, solid core available	Split core standard, solid core available	Split core standard, solid core available	Split core standard, solid core available
<b>Protocols available†</b>	Pulse output	Pulse output	EZ-7, RTU, BAC	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11
<b>Self Power Supply</b>					
<b>Multiple Meter Unit</b>	•	•	•		
<b>Enclosures type</b>	JIC Steel, NEMA 4X	JIC Steel, NEMA 4X	JIC Steel, NEMA 4X	JIC Steel, NEMA 4X	JIC Steel, NEMA 4X
<b>Circuit: single phase, 2-wire</b>	•				
<b>Circuit: single phase, 3-wire</b>	•		•	•	•
<b>Circuit: 3-phase, 3-wire (delta)</b>		•	•	•	•
<b>Circuit: 3-phase, 4-wire (wye)</b>		•	•	•	•
<b>CE Approval</b>			•		•
<b>UL/CUL Listed</b>	•	•	•	•	•
<b>ANSI C12.20</b>	•	•	•	•	•
<b>Meets or exceeds MID accuracy standards</b>				•	•
<b>IEC 62053-22: Class 0.25</b>					

\* Expanded feature option includes load control option for load control/shedding, two external meter inputs (water, gas, BTU etc.) (stored in channels 5&6) and two pulse outputs (one kWh and one kVARh.)



Features and Functions	Din-Mon D2	Din-Mon D5	Multi-Mon	PowerSmart Plus Essential	PowerSmart Advanced	PowerSmart Socket Meter
Communicating	•	•	•	•	•	•
Revenue-grade	•	•	•	•	•	•
Expanded Features*						
Voltage	208, 480, 600, 400	208, 480, 600, 400				
Amps	100, 200, 400, 800	100, 200, 400, 800				
Current						
Communications	RS-485, Ethernet	RS-485/Ethernet, RS-485/LonWorks	RS-485, Modbus	RS-485, Ethernet	RS-485, Ethernet	RS-485, Ethernet
Dual protocol		•				
4-line display	•	•				
Integrated Keypad	•	•	•	•	•	
On-board set-up via EZ7	•	•				
Data Recorder	•	•	•	•	•	•
External Inputs					2	
Pulse Outputs	2	2			2	
Phase loss alarm (N.O. Contact)	•	•			•	
Net metering	•					
Branch circuit monitoring			•			
Power quality measurement				•	•	•
Power demand measurement						•
Field upgradeable Firmware						•
Current Sensor Voltage (0-2 V or 0 - 0.333V)	0.333 volt	0.333 volt		5 Amp	5 Amp	5 Amp
Current sensor options	Split core standard, solid core available	Split core standard, solid core available	Split core and solid core - order separately	With or without built-in sensors	With or without built-in sensors	With or without built-in sensors
Protocols available†	EZ-7, RTU, BAC	01, 02, 03, 04, 05, 06, 08	06	06	06	06
Self Power Supply			•			
Multiple Meter Unit						
Enclosures type	Non-metallic enclosure	Non-metallic enclosure	JIC Steel	JIC Steel	JIC Steel	
Circuit: single phase, 2-wire						
Circuit: single phase, 3-wire	•	•				
Circuit: 3-phase, 3-wire (delta)	•	•	•			
Circuit: 3-phase, 4-wire (wye)	•	•	•			
CE Approval	•	•	•			
UL/CUL Listed	•	•	•			•
ANSI C12.20	•	•	•	•	•	•
Meets or exceeds MID accuracy standards	•	•				
IEC 62053-22: Class 0.25						•

Protocols available†
<b>01</b> - EZ-7, EZ-7 Ethernet;
<b>02</b> - Modbus RTU, EZ-7 Ethernet
<b>03</b> - BACnet MS/TP, EZ-7 Ethernet
<b>04</b> - EZ-7, Modbus TCP/IP;
<b>05</b> - EZ-7, BACnet IP
<b>06</b> - Modbus RTU, Modbus TCP/IP
<b>07</b> - LonWorks TP, EZ-7 Ethernet
<b>08</b> - LonWorks TP, Modbus TCP/ IP
<b>09</b> - EZ-7, EZ-7 Ethernet with modem
<b>10</b> - EZ-7, Modbus TCP/IP with modem
<b>11</b> - EZ-7, BACnet IP with modem

\* Expanded feature option includes load control option for load control/shedding, two external meter inputs (water, gas, BTU etc.) (stored in channels 5&6) and two pulse outputs (one kWh and one kVARh.)

# Smart Meters for Smart Data Management

The Honeywell submeter offering includes a variety of smart metering products and solutions that enable simultaneous communication with up to two energy monitoring systems including BAS systems, energy monitoring and billing programs and/or M&V reporting tools.

These meters offer simultaneous dual-protocol communication capabilities which allow users to obtain granular meter data from a single device acting as a separate billing meter and also an independent building automation system meter.

## EZ7 Network

Meters are supplied standard with EZ7 protocol.



Additional communication protocols include: Modbus RTU and BACnet MS/TP.



NEMA 4X polycarbonate enclosure standard.



All meter kits include one set of three (3) split-core current sensors.



## Class 320 Meter (H32) Smart Meter with RS-485 Communications

- Available in a Multiple Meter Unit (MMU) version
- CE Mark approved
- RS-485 Communications
- Includes one set of split-core current sensors

Series	Voltage	Current	Enclosure Type		Protocol		Current Sensors	
			Code	Description	Code	Description	Code	Description
H32-	120	25HV-	J	JIC Steel Enclosure	RTU	Modbus RTU	KIT	Split-Core Current Sensors
	208	100-						
	400 (380,415)	200-	R	NEMA 4X Enclosure	EZ7	EZ-7	NONE	No Current Sensors Included
	480	400-	M	MMU Style Meter	BAC	BACnet MS/TP	SP	Single phase or two phase (two element)
	600	800-					SCS	Solid-Core Current Sensors
		1600-						
	3200-							

Product Ordering Example

### H32-480400-JEZ7KIT

H32 Series Three-Phase 480V 400A Steel Enclosure, EZ-7 with Split-Core Current Sensors



## Class 340 Meter (H34)

### Smart Meter with Advanced Dual Protocol Communications

- Optional expanded feature package: includes built-in functions for load control and two pulse outputs (kWh and kVARh)
- Advanced 4-line large display
- RS485 and Ethernet communications
- Includes one set of split-core current sensors

Series	Voltage	Current	Enclosure Type		Protocol		Options		Current Sensors	
			Code	Description	Code	Description	Code	Description	Code	Description
H34-	120	25HV-	J	JIC Steel Enclosure	01	EZ-7, EZ-7 Ethernet (Green Net Meters Only)	X	Expanded Feature Package - class 3400 only	KIT	Split-Core Current Sensors
	208	100-			02	Modbus RTU, EZ-7 Ethernet	SP	Single phase or two phase (two element)	SCS	Solid-Core Current Sensors
	400 (380-415)	200-	R	NEMA 4X Enclosure	03	BACnet MS/TP, EZ-7 Ethernet	XSP	Single phase or two phase (two element) Expanded Feature Package	NS	Meters Shipped w/o Sensors
	480	400-			04	EZ-7, Modbus TCP/IP	KIT	No Options, Split-Core Sensors		
	600	800-			05	EZ-7, BACnet IP	SCS	No Options, Solid Core Sensors		
		1600-			06	Modbus RTU, Modbus TCP/IP	NS	Meters Shipped w/o Sensors		
		3200-			07	Lonworks TP, EZ-7 Ethernet				
					08	Lonworks TP, Modbus TCP/ IP				
					09	EZ-7, EZ-7 Ethernet with Modem				
					10	EZ-7, Modbus TCP/IP with Modem				
					11	EZ-7, BACnet IP with Modem				



## Class 500 Meter (H50)

### Smart Meter and Green Net Meter with Dual Protocol Capabilities

- Advanced 4-line display
- Onboard installation diagnostics
- Built-in RS-485 & Ethernet Communications
- Includes one set of split-core current sensors

Series	Voltage	Current	Enclosure Type		Protocol		Sensor/Options		Current Sensors	
			Code	Description	Code	Description	Code	Description	Code	Description
H50-	120	25HV-	J	JIC Steel Enclosure	01	EZ-7, EZ-7 Ethernet (Green Net Meters Only)	N	Green Class Net Meter	KIT	Split-Core Current Sensors
	208	100-			03	BACnet MS/TP, EZ-7 Ethernet	SCS	No Options, Solid Core Sensors	NONE	No Current Sensors Included
	400 (380,415)	200-	R	NEMA 4X Enclosure	04	EZ-7, Modbus TCP/IP	XXX	No Options, No Sensors	SP	Single phase or two phase (two element)
	480	400-			05	EZ-7, BACnet IP	SP	Single phase or two phase (two element)	NSP	Single Phase Green Class Net Meter
	600	800-			06	Modbus RTU, Modbus TCP/IP	KIT	No Options, Split-Core Sensors	SCS	Solid-Core Current Sensors
		1600-			07	Lonworks TP, EZ-7 Ethernet	NSP	Single Phase Green Class Net Meter		
		3200-			08	Lonworks TP, Modbus TCP/ IP				
					09	EZ-7, EZ-7 Ethernet with Modem				
					10	EZ-7, Modbus TCP/IP with Modem				
					11	EZ-7, BACnet IP with Modem				



# Easy Installation, Performance Monitoring

The compact Din-Mon is ideally suited for internal mounting in building automation equipment boxes, switchgear, control panels, server racks, renewable energy systems and other space-constrained energy monitoring applications. Din-Mon is also wall mountable. Typical applications include energy-efficiency monitoring of HVAC equipment and other building electrical systems, transformers and more.



## Din-Mon™ Smart Meters

**D2 (H-D2) with RS-485 Communications**

**D5 (H-D5) with Dual Protocol Capabilities**

- DIN-rail or wall mounting
- 38 metering points for BAS integration
- RS-485 and Ethernet communications capabilities
- Current sensors ordered separately

Series/Class		Voltage		Amperage		Enclosure		Communication Protocol	
Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
<b>H-D2</b>	DIN rail 3200 (only supports RS485)	<b>208</b>	120/208V, 3 or 4 wire	<b>100-</b>	100 amp	<b>S</b>	Standard Enclosure	<b>01</b>	EZ-7, EZ-7 Ethernet
<b>H-D5</b>	DIN rail 5000 (dual protocols)	<b>480</b>	277/480V, 3 or 4 wire	<b>200-</b>	200 amp			<b>02</b>	Modbus RTU, EZ-7 Ethernet
		<b>600</b>	347/600V	<b>400-</b>	400 amp			<b>03</b>	BACnet MS/TP, EZ-7 Ethernet
		<b>400</b>	230/400V (default for international, operates from 380V to 415V)	<b>800-</b>	800 amp			<b>04</b>	EZ-7, MODBUS TCP/IP
								<b>05</b>	EZ-7, BACnet IP
								<b>06</b>	Modbus RTU, Modbus TCP/IP
								<b>12</b>	EZ-7/ LonWorks TP/FT-10
								<b>RTU</b>	Modbus RTU (only D2)
								<b>BAC</b>	BACnet MS/TP (only D2)
								<b>EZ7</b>	EZ7 (only D2)

Current Sensor Type		Configuration Phases		Current Sensor Output		Sensor Quantity	
Code	Description	Code	Description	Code	Description	Code	Description
<b>SPL</b>	Split-core sensor [100, 200, 400, 800]	<b>1-</b>	Single phase	<b>V3</b>	0.333V output	<b>blank</b>	no current sensor
<b>SCS</b>	Solid-core sensor [100, 200A]	<b>2-</b>	Two phases	<b>C1</b>	100mA output	<b>KIT1</b>	include 1 current sensor
		<b>3-</b>	Three phases			<b>KIT2</b>	include 2 current sensors
						<b>KIT3</b>	include 3 current sensors

Product Ordering Example

Example: **H-D5-480100-S03SPL3-V3KIT3**

H-D5-480100-S03SPL3-V3KIT3 = Dual protocol, three-phase 480v 100A standard enclosure with three current sensors



# Multiple Meter Management

Branch level energy data visualization is easy with Multi-Mon branch circuit monitors. Multi-Mon offers a packaged solution that systems designers and end users can easily integrate with their own equipment. Multi-Mon provides energy monitoring, tenant billing, cost allocation, power quality management and energy data visualization at the branch circuit level. MMU cabinets facilitate centralized submeter readings for easy data management.



## Multi-Mon Meters

Multi-Mon is a multi-phase, multi-channel, multi-function Ampere/Volt demand meter that can contain up to 36 single-phase, 18 two-phase or 12 three-phase submeters in a single device. Perfect for data centers, apartment buildings, OEMs and lighting control panels where a compact meter that can handle many circuits is needed. Power software is included for ease of set up and analysis.

- 36-channel branch circuit energy monitor
- 2-row, 16-character backlit LCD display
- RS-485 and Ethernet communications
- Current sensors ordered separately

Part #	Description
<b>HMM-RTU-Y-N</b>	Branch Circuit Meter with Modbus RTU, Wye without sensors
<b>HMM-RTU-D-N</b>	Branch Circuit Meter with Modbus RTU, Delta without sensors
<b>HMM-RTU-Y-N-ETH</b>	Branch Circuit Meter with Modbus TCP/IP, Wye without sensors
<b>HMM-RTU-D-N-ETH</b>	Branch Circuit Meter with Modbus TCP/IP, Delta without sensors
<b>HMM-RTU-Y-N-MC</b>	Branch Circuit Meter with Modbus RTU, Wye without sensors with enclosure
<b>HMM-RTU-D-N-MC</b>	Branch Circuit Meter with Modbus RTU, Delta without sensors with enclosure
<b>HMM-RTU-Y-N-ETH-MC</b>	Branch Circuit Meter with Modbus TCP/IP, Wye without sensors with enclosure
<b>HMM-RTU-D-N-ETH-MC</b>	Branch Circuit Meter with Modbus TCP/IP, Delta without sensors with enclosure

### Multi-Mon Sensors

Part #	Description
<b>HMPS-100-12-SCS</b>	MPS 100 amp - .47" ID, solid sensor
<b>HMPS-100-23-SCS</b>	MPS 100 amp - .9" ID, solid sensor
<b>HMPS-100-16-SPL</b>	MPS 100 amp - .63" ID, split sensor
<b>HMPS-1200-121-SPL</b>	MPS 1200 amp - 4.7" x 3.1" ID, split sensor
<b>HMPS-200-24-SPL</b>	MPS 200 amp - .96" ID, split sensor
<b>HMPS-400-26-SCS</b>	MPS 400 amp - 1.02" ID, solid sensor
<b>HMPS-400-43-SPL</b>	MPS 400 amp - 1.7" x 1.3" ID, split sensor
<b>HMPS-800-50-SPL</b>	MPS 800 amp - 1.9" x 3.1" ID, split sensor

# Precision Power Monitoring

The PowerSmart™ family of power quality energy monitors for commercial, industrial and institutional energy monitoring applications offers unprecedented granularity of energy measurement data combined with advanced power quality analysis. These submeters provide improved energy efficiency and monitoring capabilities for multi-family, commercial, industrial, data center and other branch circuit monitoring applications. In addition, they offer advanced data analysis to reduce utility surcharges and prevent damage to critical equipment in industrial applications and data centers where downtime has a significant impact on business.



## PowerSmart Plus Essential Meter

The PowerSmart Essential power quality meter is a multi-functional power meter measuring over 100 energy parameters for revenue metering, power quality and harmonic analysis. The device can be integrated in panel boards or supplied in a stand-alone enclosure. The LCD display provides a wealth of metering information and graphical display of vector diagrams, load bars and waveform monitoring. The PowerSmart Essential meter is ideal for energy metering and power quality analysis of specific critical loads to an entire building.

- Panel mount
- Class 0.5S IEC62053-22 four-quadrant active and reactive polyphase static meter
- RS-485 or Ethernet communications
- Available with or without built-in sensors

Part #	Description
<b>HPS-E-RTU-5</b>	Essential Meter with Modbus RTU and built-in 5 amp sensors
<b>HPS-E-RTU-5-ETH</b>	Essential Meter with Modbus TCP/IP and built-in 5 amp sensors
<b>HPS-E-RTU-N</b>	Essential Meter with Modbus RTU without sensors
<b>HPS-E-RTU-N-ETH</b>	Essential Meter with Modbus TCP/IP without sensors
<b>HPS-E-RTU-5-EC</b>	Essential Meter with Modbus RTU and built-in 5 amp sensors with enclosure
<b>HPS-E-RTU-5-ETH-EC</b>	Essential Meter with Modbus TCP/IP and built-in 5 amp sensors with enclosure
<b>HPS-E-RTU-N-EC</b>	Essential Meter with Modbus RTU without sensors with enclosure
<b>HPS-E-RTU-N-ETH-EC</b>	Essential Meter with Modbus TCP/IP without sensors with enclosure



## PowerSmart Advanced Power Quality Energy Meter

The PowerSmart Advanced power quality meter is a multi-function power meter combined with a power quality analyzer. The meter has extensive memory and data logging capability to support full harmonic analysis and waveform recording. The device can be integrated into panel boards or provided in a stand-alone enclosure. The PowerSmart Advanced meter is ideal for power quality analysis & recording of harmonics, spikes, sags, swell, etc. of specific critical loads to an entire building.

- Power meter and power quality analyzer combined
- Class 0.2 four-quadrant multi-function 3-phase energy meter
- RS-485 and Ethernet communications
- Available with or without built-in sensors

Part #	Description
<b>HPS-A-RTU-5</b>	Advanced Meter with Modbus RTU and built-in 5 amp sensors
<b>HPS-A-RTU-5-ETH</b>	Advanced Meter with Modbus TCP/IP and built-in 5 amp sensors
<b>HPS-A-RTU-N</b>	Advanced Meter with Modbus RTU without sensors
<b>HPS-A-RTU-N-ETH</b>	Advanced Meter with Modbus TCP/IP without sensors
<b>HPS-A-RTU-5-AC</b>	Advanced Meter with Modbus RTU and built-in 5 amp sensors with enclosure
<b>HPS-A-RTU-5-ETH-AC</b>	Advanced Meter with Modbus TCP/IP and built-in 5 amp sensors with enclosure
<b>HPS-A-RTU-N-AC</b>	Advanced Meter with Modbus RTU without sensors with enclosure
<b>HPS-A-RTU-N-ETH-AC</b>	Advanced Meter with Modbus TCP/IP without sensors with enclosure



## PowerSmart Socket Meter

The PowerSmart Socket Meter is a revenue-grade three-phase active energy and power demand meter that provides multiple tariffs and time-of-use capability, transformer and line losses, harmonic analyzer, volts and amps, power harmonics and power factor, unique anti-tampering and self-test functions.

- Precision Class 0.02 three-phase active energy and power demand meter
- Form 9S socket configuration allows easy new or retrofit installation
- RS-485 or Ethernet communications

Part #	Description
<b>HPS-S-HV-RTU</b>	Socket Meter with Modbus RTU, 57.73-120V AC, for use with PT's & CT's
<b>HPS-S-HV-RTU-ETH</b>	Socket Meter with Modbus TCP/IP, 57.73-120V AC, for use with PT's & CT's
<b>HPS-S-SV-RTU</b>	Socket Meter with Modbus RTU, 120-277V AC
<b>HPS-S-SV-RTU-ETH</b>	Socket Meter with Modbus TCP/IP, 120-277V AC

### PowerSmart Advanced Sensors

Part #	Description
<b>HMPS-100-12-SCS</b>	MPS 100 amp - .47" ID, solid sensor
<b>HMPS-100-23-SCS</b>	MPS 100 amp - .9" ID, solid sensor
<b>HMPS-100-16-SPL</b>	MPS 100 amp - .63" ID, split sensor
<b>HMPS-1200-121-SPL</b>	MPS 1200 amp - 4.7" x 3.1" ID, split sensor
<b>HMPS-200-24-SPL</b>	MPS 200 amp - .96" ID, split sensor
<b>HMPS-400-26-SCS</b>	MPS 400 amp - 1.02" ID, solid sensor
<b>HMPS-400-43-SPL</b>	MPS 400 amp - 1.7" x 1.3" ID, split sensor
<b>HMPS-800-50-SPL</b>	MPS 800 amp - 1.9" x 3.1" ID, split sensor

# Collect and Store Energy Data

Unlike communicating submeters which continuously read energy usage as it occurs, IDR Interval Data Recorders collect and store energy data from meters in time-stamped intervals for later download. An IDR collects and stores meter information at specified time periods, allowing for profiling of meter data and more detailed comparative analysis or billing.

The IDR collects kWh and kW demand information from meters in field selectable 5, 15, 30 or 60-minute interval periods. Data can be collected from up to 8 or 16 separate meters/channels of information. Up to 72 days of 15-minute interval data is stored in onboard memory. The IDR interval meter data can be accessed via a variety of communication options including; telephone, Ethernet, ModBus, BACnet, Internet, LonWorks TP or MV-90. Data can be used to interface with E-Mon Energy Automatic Meter Reading & Billing software, Building Automation Systems or other energy software.



## Interval Data Recorder

- Retains data in case of power outage
- FCC Approval
- 120V power supply required and included with all IDRs
- Flexible communication protocol and option packages

Class	# of Meters	Enclosure Type		Protocol		Connection			
		Code	Description	Code	Description	Code	Description		
HIDR-	8-	J	JIC Steel Enclosure	01	EZ-7, EZ-7 Ethernet	ST	Screw Terminal Connections (Only Available For HIDR-8 Models)		
	16-			R	NEMA 4X Enclosure			02	Modbus RTU, EZ-7 Ethernet
				M	MMU Style Meter			03	BACnet MS/TP, EZ-7 Ethernet
				04	EZ-7, Modbus TCP/IP				
				05	EZ-7, BACnet IP				
				06	Modbus RTU, Modbus TCP/IP				
				07	Lonworks TP, EZ-7 Ethernet				
				08	Lonworks TP, Modbus TCP/ IP				
				09	EZ-7, EZ-7 Ethernet with Modem				
				10	EZ-7, Modbus TCP/IP with Modem				
				11	EZ-7, BACnet IP with Modem				
		RJ	RJ Connections						

Product Ordering Example

Example: **HIDR-8-J05ST**

IDR for 8 meters, Steel enclosure, EZ-7 RS-485 and EZ-7 Ethernet with Screw Terminal connection option



# Space-Saving Metering Options

Space-saving multiple meter unit allows for easy and centralized reading. IDRs (Interval Data Recorders) can be factory installed inside MMU enclosures along with the meters allowing for easy interface to the E-Mon Energy software system. MMU cabinets allow easy and centralized reading of meters in apartment buildings, campuses, healthcare facilities and industrial applications.



## Multiple Meter Unit (MMU) Cabinets

Cabinets contain 8, 16, or 24 meters mounted in a single cabinet and prewired before shipping. Cabinets are available for Class 100, Class 200 and Class 320 meters. Interval Data Recorders can be added for communications including RS-485 and Ethernet protocols. For added flexibility MMU cabinets may contain meters of different voltage configurations (i.e. 208V & 480V meters inside a single MMU enclosure).

- Available in configurations containing up to 8, 16 or 24 meters
- May contain meters of different voltage configurations
- Allow for easy and centralized reading

Part #	Description	Configuration	Dimensions
<b>HMMU-8</b>	MMU-8 Cabinet/Enclosure for 8 meters	2 meters across/4 meters down	12"w x 24"h x 7"d
<b>HMMU-16</b>	MMU-16 Cabinet/Enclosure for 16 meters	4 meters across/4 meters down	20"w x 24"h x 7"d
<b>HMMU-24</b>	MMU-24 Cabinet/Enclosure for 24 meters	5 meters across/5 meters down	30"w x 24"h x 7"d
<b>MMU-BLANK</b>	Multiple Meter Unit Blank Space		

### Product Ordering Example

Part #	Quantity	
<b>HMMU-8</b>	1	Meters and blanks must add up to # of spaces in MMU, in this case 8.
<b>H32-4801600MEZ7KIT</b>	3	
<b>H32-480400-MEZ7KIT</b>	3	
<b>MMU-BLANK</b>	2	

Please specify the meter configuration in the MMU using the form 62-0460, and send this in with the order. When ordering meters less than the capacity of the MMU, please fill up the difference with the 'MMU-BLANK' spaces. For example, if you buy 6 meters for HMMU-8, you need 2 MMU-Blank spaces (8-6=2).

# On-The-Spot Readings

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

Ideal for "walk up and read" applications, these submeters work seamlessly with controllers using Pulse 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. Available with an industrial-grade JIC steel enclosure for indoor installation or with a raintight polycarbonate housing that protects the installation from the elements.



## Class 100 Meter (H10) Single-Phase kWh Submeter

- Provides kW and kWh data for single-phase power
- Revenue-grade accuracy
- Maintains reading in the event of power failure
- Includes one set of split-core current sensors

Series	Voltage	Current	Enclosure Type		Current Sensors	
			Code	Description	Code	Description
H10-	2120	25				
	3208	50	J	JIC Steel Enclosure	KIT	Split-Core Current Sensors
	2277	100	R	NEMA 4X Enclosure	NONE	No Current Sensors Included
		200	M	MMU Style Meter	SCS	Solid-Core Current Sensors



## Class 200 Meter (H20) Three-Phase kWh Submeter and Green Meter with CO2 & Carbon Footprint Data

- Provides kW and kWh data for 3-phase power
- Revenue-grade accuracy
- Includes one set of split-core current sensors
- California CTEP approved for use with solid-core current sensors. Listed by the California Energy Commission.

Series	Voltage	Current	Enclosure Type		Green or Demand Option		Current Sensors	
			Code	Description	Code	Description	Code	Description
H20-	120	25HV						
	208	100	J	JIC Steel Enclosure	-G-	Green Class Meter	KIT	Split-Core Current Sensors
	480	200	R	NEMA 4X Enclosure	KIT	No Options, Split-Core Sensors	NONE	No Current Sensors Included
	600	400	M	MMU Style Meter	SCS	Solid-Core Current Sensors	SCS	Solid-Core Current Sensors
		800			XXX	No Options. No Sensors		
		1600			-D-	Demand		
		3200						

Product Ordering Example

Example: **H20-2081600R-D-KIT**

H20 Series Three Phase 208/240V 1600A NEMA 4X Enclosure, Demand Option, with Three Current Sensors

# Unlock the Potential Savings

---

E-Mon Energy automatic meter reading system allows users to accurately monitor interval energy data for a variety of applications including tenant billing/allocation, departmental allocation, common area management demand/energy analysis and equipment maintenance programs as well as M & V for LEED certification and other green building initiatives.



## **Energy Monitoring Software**

generates and prints itemized electric bills using related peak demand date and time. This customer-owned software will fully automate the system to generate bills, create pdf files, print bills or send e-mails based on user-specified parameters.

## Complementary Metering Products

---

Honeywell offers a wide variety of additional solutions for tracking the energy used in common HVAC systems, including measurement capabilities for systems using electric, gas, water, steam, BTU, fuel & compressed air. The meters are capable of communication via Modbus, BACnet, LonWorks and EZ7 to E-Mon Energy software and/or EMS/BMS systems, including WEBS-AX™. For information about sizes and configurations of gas, water, steam and BTU meters visit [customer.honeywell.com](http://customer.honeywell.com).



# LEED 2013 Credit Qualifications

Honeywell Building Control Systems products have the potential to contribute points toward LEED certification three LEED environmental rating systems. From air quality performance, lighting control and energy metering, Honeywell solutions offer environmentally conscious users the ability to visualize, manage and reduce energy and water usage in their buildings.

		Building Design and Construction	Interior Design and Construction	Building Operations and Maintenance
Building Automation	WEBS-AX Energy Analytics	●	●	●
	WEBS-AX Security	●	●	●
	WebVision	●	●	●
	WEBS Controllers	●	●	●
	Spyder Controllers	●	●	●
	XL Controllers	●	●	●
	Lighting Stryker	●	●	●
	Occupancy/Vacancy Sensors	●	●	●
	Daylight Sensors	●	●	●
	Electrical Submeters	●	●	●
	Water Submeters	●	●	●
	Gas, Thermal, BTU meters	●	●	●
Commercial HVAC Components	Commercial Thermostats	●	●	●
	Wall modules	●	●	●
	CO2 Sensors	●	●	●
	Humidity Sensors	●	●	●
	VFDs	●	●	●
	Automatic Control Valves	●	●	●
	Proportional Actuators	●	●	●
	Economizers	●	●	●



Niagara<sup>AX</sup> Framework and the logos used herein including such marks are registered trademarks of Tridium.

BACnet<sup>®</sup> is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

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, communication keys, additional current sensors, E-mon Energy software or EZ-7 Drive call **1-800-466-3993** or visit **buildingcontrols.honeywell.com**.

## Automation and Control Solutions

Honeywell  
1985 Douglas Drive North  
Golden Valley, MN 55422-3992  
1-800-466-3993  
www.honeywell.com

Follow us on Twitter:

@honeywellcpro



YouTube:

@honeywellcpro



# Honeywell

