

H-Series Green Class Net Meter

ADVANCED KWH/DEMAND METER WITH CO2 FOOTPRINT

PRODUCT DATA



APPLICATION

The Honeywell Green Class Net meter is a 3-Phase meter with communications. The device is used to monitor electric power usage of individual loads after the utility meter and store kW and kVAR data for automatic meter reading. The meter is dual protocol capable and provides both RS485 and Ethernet communications.

FEATURES

- **Advanced 4-line display showing:**
 - kWh delivered, received and Net kWh.
 - kW demand (with peak date & time).
 - Power factor per phase.
 - Real-time load in kW.
 - Amps per Phase.
 - Volts per phase.
- **CO2 footprint:** provides estimated CO2 information based on total delivered energy and the energy that will be generated based on present load.
- **On-board set-up option for:**
 - IP address.
 - Meter date/time.
 - ID codes for EZ7.
- **0-2 volt output split-core current sensors** allow for enhanced safety and accurate remote mounting of sensors up to 500 feet from meter without power interruption (all part numbers with 'KIT' include 3 current sensors).
- **Onboard installation diagnostics and verification system:** current sensor installation diagnostics indicator, phase error indicator and phase angle diagnostics on display.
- **Optional 5th channel** available for one external pulse meter input (gas, water, BTU, etc) on EZ-7 protocol. The channel provide interval data logging that can be read via E-mon Energy software.



FEATURES CONTINUED

- Communication options/protocols:
 - Built in RS-485: EZ-7.
 - Built in Ethernet: EZ-7.
- Compatible with E-Mon Energy software via EZ7 protocol for automatic meter reading, energy billing and profiling.
- Phase loss alarm (N.O. Contact).
- Built-in RS-485 communication capability supports the following connection configurations (or combinations not to exceed 52 devices per channel): - Up to 52 Class 500 meters and/or IDR interval data recorders. Cabling can be either daisy-chain or star configuration through RJ-11 modular jack (4-conductor) or terminal block (3-conductor), 18-26 AWG, up to 4,000 cable feet total.
- For EZ-7 meters, records kWh and kVARh delivered, kWh and kVARh received in first four channels. Data stored in 15-min. for up to 72 days or 5-minute intervals for up to 24days. Maintains data in a first-in, first-out format.
- UL/CUL Listed. Certified by independent test lab to ANSI C12.20 national accuracy standards. (+/- 0.2% from 1% to 100% of rated load).
- Non-volatile memory to maintain reading during power outages.
- MV-90 Compatible (with EZ7 only).
- METER DATA POINTS
 - Energy delivered.
 - Reactive Energy delivered.
 - Energy Received.
 - Real Power.
 - Reactive Power.
 - Apparent power.
 - Power factor.
 - Current total.
 - Current average.
 - Voltage line.
 - Frequency.
 - Phase angle.
 - Real power for each phase.
 - Reactive power for each phase.
 - Apparent power for each phase.
 - Power factor for each phase.
 - Current for each phase.
 - Voltage for each phase.
 - Phase angle for each phase.
 - External input 1 (optional).

ORDERING INFORMATION

When purchasing replacement and modernization products from your TRADELINE® wholesaler or distributor, refer to the TRADELINE® Catalog or price sheets for complete ordering number. If you have additional questions, need further information, or would like to comment on our products or services, please write or phone:

1. Your local Honeywell Environmental and Combustion Controls Sales Office (check white pages of your phone directory).
2. Honeywell Customer Care
1885 Douglas Drive North
Minneapolis, Minnesota 55422-4386
3. <http://customer.honeywell.com> or <http://customer.honeywell.ca>

International Sales and Service Offices in all principal cities of the world. Manufacturing in Belgium, Canada, China, Czech Republic, Germany, Hungary, Italy, Mexico, Netherlands, United Kingdom, and United States.

METER TECHNICAL SPECIFICATIONS

Input Voltage Configuration	3-wire (Delta) Or 4-wire (Wye)	
Mains Voltage Input	Up To 600 VAC RMS Available	
Input Power	12 VA Maximum Rating	
Current Sensor Rating	Up To 3200 Amps RMS AC Available	
Power Factor	0.5 Leading Or Lagging	
Line Frequency	50-60 Hz	
Metering Accuracy	All meter/current sensor amperages are accurate to ANSI C12.20 standards at +/- 0.2% from 1% to 100% of current rating	
Voltage Operating Range	+/-10% Of Rated Load	
Temperature Range	-20 C To +50 C	
Relative Humidity Range	0-95% Non-condensing	
Altitude	2000 Meters Maximum	
Voltage Overload	+25% Continuously: +100% For 20 Cycles	
Current Sensor Overload	100% For 1 Minute Without Damaging Meter	
Pollution Degree	Degree 2 In Accordance With IEC 664	
Installation (Overvoltage) Category	Category 111	
Measurement Category	Category 111	
Enclosure Type	Green heavy duty JIC steel enclosure with padlocking hasp and mounting flanges for indoor installation	
Display Readout	4 Line LCD	
Standard Ranges	4-Wire Wye, 208 VAC: 100, 200, 400, 800,1600,3200 Amp 3-Wire Delta, 480 VAC: 100, 200,400,800,1600,3200 Amp 4-Wire Wye, 208 VAC: 100, 200, 400, 800,1600,3200 Amp 4-Wire Wye, 600 VAC: 100, 200, 400, 800,1600,3200 Amp	
RS-485 Serial Communications	Cable:	UL-listed/rated Telephone Cord. 4-cond.
	Input/output Voltage:	Ground-isolated +/-5.4VDC
	Cable Connector:	Screw Terminal Termination
	Circuit Input Isolation:	5.3kVAC
	Max Cable Distance:	4000 Feet
	Max Network Nodes:	64 Cabling Nodes (Including Master)
	Default Baud Rate:	9600 for EZ-7
Recommended In-line Fuse	Manufacturer:	Littlefuse
	Mfg. Part No:	KLDR.100
	Rating:	100mA, Time-delay, 600VAC Cartridge Fuse
Battery Cell	Description:	Non-rechargeable Cell Used For Memory Retention
	Manufacturer:	Panasonic
	Mfg Part No:	CR2032
	Working Voltage:	3 VDC
	Current Capacity	225 mAHr
	Electrolyte:	Manganese Dioxide Lithium

Green Net 3 Phase Meter Selection Guide												
Series	Class		Voltage	Current	Enclosure Type		Protocol		Green Net Option		Current Sensors Included	
H	50	-	208	100-	J	JIC STEEL	01	EZ-7 RS 485, EZ-7 ETHERNET (GREEN NET METERS ONLY)	-N-	GREEN NET CLASS	KIT	3 SPLIT CORE SENSORS
		-	480	200-								
		-	600	400-								
				800-								
				1600								
				3200								

Example H50-4803200J01-N-KIT = green class net, 480V, 3200A, JIC steel enclosure, RS-485 EZ-7 and Ethernet EZ-7, with 3 sensors included

Automation and Control Solutions

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