

CLASS 340 Smart Meter

ADVANCED KWH/DEMAND METERS WITH COMMUNICATION

SPECIFICATION DATA

FEATURES

- Standard features Include advanced 4-line large display showing:
 - kWh
 - kW demand (with peak date & time)
 - Power factor per phase
 - Real-time load in kW
 - Amps per Phase
 - Volts per phase
 - On-board set-up option for:
 - IP address
 - Meter date/time
 - Load Control Settings
 - ID codes for EZ7, Modbus and BACnet
- Optional expanded feature package provides additional features:
 - Load control option for load control/shedding
 - Two external meter inputs (water, gas, BTU, etc.) (stored in channels 5 & 6)
 - Two Pulse outputs (one kWh and one kVARh)
- 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. (Optional solid-core sensors available.)
- Onboard installation diagnostics and verification system.
- Built-in RS-485 communications capability supports the following connection configurations (or combinations not to exceed 52 devices per channel):
 - Up to 52 Din-Mon D2 & D5, Class 320, 340 or 500 meters and/or IDR interval data recorders
 - Cabling is daisy-chain configuration, 3-conductor, 18-22 AWG, up to 4,000 cable feet total per channel.
- Communications
 - Built-in communication
 - RS-485
 - Ethernet
 - Pulse output
 - Optional telephone modem
- Protocols
 - EZ7
 - BACnet MS/TP*
 - Modbus RTU
 - BACnet IP*
 - Modbus TCP/IP
 - LonWorks FT-10 (Twisted Pair)*
- Records kWh & kVARh delivered, kWh & kVARh received in first four channels. Data stored in 15-min. intervals for up to 72 days or 5-minute intervals for up to 24 days. Maintains interval data storage in a first-in, first-out format.

- Compatible with E-Mon Energy software via EZ7 protocol for automatic meter reading, billing & profiling of interval energy data.
- Meter is designed for use on both 3-phase, 3-wire (delta) and 3-phase, 4-wire (wye) circuits. Optional single-phase, 3-wire configuration available.
- Outdoor NEMA 4X polycarbonate enclosure (standard) with padlocking hasp & mounting flanges for indoor/outdoor installation (stand alone) with one 1 1/16" KO on bottom of enclosure.
- Optional industrial grade JIC steel enclosure w/ padlocking hasp & mounting flanges for indoor installation with three 1 1/16" KO (3/4" conduit) on bottom of enclosure.
- UL/CUL listed. Meets or exceeds ANSI C12.20 national accuracy standards. (+/- 0.2% from 1% to 100% of rated load)
- Meter meets or exceeds MID accuracy standards.
- BACnet protocol is BTL certified. LonWorks protocol is LonMark certified.
- MV-90 compatible (with EZ7 only.)

MODEL NUMBERS

120/208-240V, 127/220V, 3-Phase

- H34-208100-R01KIT (100 amp)
- H34-208200-R01KIT (200 amp)
- H34-208400-R01KIT (400 amp)
- H34-208800-R01KIT (800 amp)
- H34-2081600R01KIT (1600 amp)
- H34-2083200R01KIT (3200 amp)

220/380V, 230/400V, 240/415V, 3-Phase

- H34-400100-R01KIT (100 amp)
- H34-400200-R01KIT (200 amp)
- H34-400400-R01KIT (400 amp)
- H34-400800-R01KIT (800 amp)
- H34-4001600R01KIT (1600 amp)
- H34-4003200R01KIT (3200 amp)

277/480V, 3-Phase

- H34-480100-R01KIT (100 amp)
- H34-480200-R01KIT (200 amp)
- H34-480400-R01KIT (400 amp)
- H34-480800-R01KIT (800 amp)
- H34-4801600R01KIT (1600 amp)
- H34-4803200R01KIT (3200 amp)

* Interval data not available via BACnet or LonWorks.



347/600V, 3-Phase, 4 W (Wye Configuration)

- H34-600100-R01KIT (100 amp)
- H34-600200-R01KIT (200 amp)
- H34-600400-R01KIT (400 amp)
- H34-600800-R01KIT (800 amp)
- H34-6001600R01KIT (1600 amp)
- H34-6003200R01KIT (3200 amp)

Enclosure Options

Meters supplied standard in NEMA 4X outdoor enclosures.

Not available in MMU Configuration.

To order a JIC Steel enclosure replace “R” in model number with “J” (H34-208100-J01KIT)

Communication Protocol & Option Packages

The models above represent the 01 protocol package. To specify a different protocol package replace “01” in model number with the specification below.

RS-485 Port	Ethernet Port	Specify
EZ7	EZ7 Ethernet	01
Modbus RTU	EZ7 Ethernet	02
BACnet MS/TP	EZ7 Ethernet	03
EZ7	Modbus TCP/IP	04
EZ7	BACnet IP	05
Modbus RTU	Modbus TCP/IP	06
Lonworks FT-10	EZ7 Ethernet	07
Lonworks FT-10	Modbus TCP/IP	08
EZ7 w/Telephone Modem	EZ7 Ethernet	09
EZ7 w/Telephone Modem	Modbus TCP/IP	10
EZ7 w/Telephone Modem	BACnet IP	11

Expanded Feature Package

To order meters with the expanded feature package add the specification “-X-” before the word KIT in the model number. (H34-208100-R05-X-KIT)

Options

Three-phase meter kits are supplied with (3) split-core current sensors.

To order a single-phase, 3-wire meter kit add “-SP” before KIT in the model number. Ex. H34-208100-R01-SPKIT

To order a single-phase, 3-wire meter with expanded feature package add “XSP” before KIT in the model number. Ex. H34-208100-R01XSPKIT

Single-phase meters will be supplied with (2) split-core current sensors.

By using this Honeywell literature, you agree that Honeywell will have no liability for any damages arising out of your use or modification to, the literature. You will defend and indemnify Honeywell, its affiliates and subsidiaries, from and against any liability, cost, or damages, including attorneys’ fees, arising out of, or resulting from, any modification to the literature by you.

SPECIFICATIONS

Meter shall be fully electronic with 4-line by 20-character backlit LCD display showing kwh, kW demand (with peak date and time), power factor per phase, real-time load in kW, Amps per phase and Volts per phase.

Meter shall utilize 0-2 volt AC output current sensors to allow paralleling and/or mounting up to 500 feet from the meter. Sensors shall be of split-core configuration to allow installation without disconnecting cabling, etc. Sensors shall be available from 100 amp to 3200 amp. Sensors shall be optionally available in solid-core configuration (100 & 200 amp.)

Meter shall be field programmable for meter date/time, IP address and ID code for communication option and optional load control settings.

Meter shall provide installation diagnostics on display.

Meter shall be enclosed in a NEMA 4X polycarbonate enclosure (standard) with padlocking hasp & mounting flanges for indoor/outdoor installation (stand alone) with one 1 1/16” KO on bottom of enclosure. Optional heavy duty JIC steel enclosure available for indoor installation.

Meter shall be UL/CUL listed to latest applicable standards for safety.

Meter shall meet or exceed ANSI C12.20 accuracy standards.

Meter shall meet or exceed MID accuracy standards.

Meter shall provide non-volatile memory to maintain reading during power outages.

Meter shall store interval data for kW and kVAR for up to 72 days in first-in first-out format. Interval data not available via BACnet or LonWorks.

Meter shall be optionally available in single-phase, 3-wire configuration.

Meter shall provide optional 5th & 6th channel for logging inputs from third-party metering devices (gas, water, BTU, etc.) Both channels provide interval data logging that can be read via E-Mon Energy software and Modbus.

Meter shall be capable of daisy-chain connection using RS-485 communications in combinations of Din-Mon D2 & D5, Class 320s, 340s, 500s, IDR-8s, IDR-16s not to exceed 52 devices. Cabling shall be available through terminal block (3-conductor), 18-22 AWG, up to 4,000 cable feet total.

BACnet protocol shall be BTL certified. LonWorks protocol shall be LonMark certified.

Automation and Control Solutions

Honeywell International Inc.
 1985 Douglas Drive North
 Golden Valley, MN 55422
 customer.honeywell.com

© U.S. Registered Trademark
 © 2014 Honeywell International Inc.
 31-00046—01 M.S. 04-14
 Printed in United States

