Energy Meters



Fulfill Your Tenant Metering Needs

APPLICATIONS

- Commercial tenant submetering
- Performance contracting
- Allocating costs
- Real-time power monitoring via local display or through control/data acquisition systems

FEATURES

The ultimate stand-alone energy metering system

High resolution backlit LCD display provides clear readings at a distance...reduces the risk of misinterpretation of the data. Back-lighting can be disabled if desired

Easy integration to control or data acquisition systems

- H8163 provides a pulse output from 1/10 to 1 pulse per kWh for easy connection to existing control systems
- H8163 provides a phase-loss alarm...protects equipment
- With the optional Communications Board (H8163-CB), Energy Meters (H8150 & H8163) can easily be added to a Modbus, BACNet or N2 control system network to report multiple variables including kW, kWh, kVAR, PF, Amps and Volts, providing crucial power information at a reduced installation cost



DESCRIPTION

The H81xx Series Energy Meters are easy to install and provide exceptional system accuracy, making them ideal for all submetering applications.

Each meter is factory-matched with one to three split-core CTs. Matching serial numbers assure that the meter and CT were calibrated together. The meter/CT pairs are system-calibrated to provide excellent total system accuracies of 1% from 2% to 100% of the amperage rating of the CTs (e.g., 2-100 amps with 100 amp CTs).

The H81xx is easy to install. The split-core CTs eliminate the need to remove electrical conductors, reducing installation time. The meter is also capable of detecting and correcting phase reversal, eliminating the need for concern about CT load orientation. The convenient color coding of the CTs and voltage leads make correct connection easy.

SPECIFICATIONS

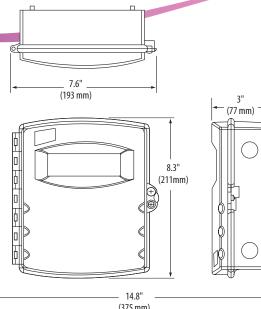
Voltage Input	
H8150	90-132VAC line-to-neutr
H8163	90-300VAC line-to-neutr
Accuracy:	
System Accuracy	\pm 1% of reading from 2% to 100% of the rated current of the CTs, accomplished by matching the CTs with electronics and calibrating them as a system \pm 1% of reading from 2% to 100% of the rated current of the CTs, accomplished by matching the CTs with electronics and calibrating them as a system \pm 1% of reading from 2% to 100% of the rated current of the CTs, accomplished by matching the CTs with electronics and calibrating them as a system \pm 1% of reading from 2% to 100% of the rated current of the CTs, accomplished by matching the CTs with electronics and calibrating them as a system \pm 1% of reading from 2% to 100% of the rated current of the CTs, accomplished by matching the CTs with electronics and calibrating them as a system \pm 1% of reading from 2% to 100% of the rated current of the CTs, accomplished by matching the CTs with electronics and calibrating them as a system \pm 1% of reading from 2% to 100% of the rated current of the CTs, accomplished by matching the CTs with electronics and calibrating them as a system \pm 1% of reading from 2% to 100% of the rated current of the CTs, accomplished by matching the CTs with electronics and calibrating them as a system \pm 1% of reading from 2% to 100% of the rated current of the CTs with electronics and calibrating them as a system \pm 1% of reading from 2% to 100% of the rated current of the CTs with electronics and calibrating them as a system \pm 1% of reading from 2% to 100\% of the rated current of the CTs with electronics and calibrating them as a system \pm 1% of reading from 2% to 100\% of the rated current of the CTs with electronics and calibrating them as a system \pm 1% of reading from 2% to 100\% of rated current of the CTs with electronics and current of the CTs with elec
Sample Rate	1280 H
Dutputs:	
All Models	
LCD Display	1.2" x 3.8" (31mm x 97mm) viewing area, 160 segments, backlit with green LC
H8163 Only	
Pulse Output	Normally open, Opto-FET, 100mA@24VAC/D
Pulse Rate	0.10*, 0.25**, 0.50, or 1.00 kWh per puls
Pulse Width	200msec close
Phase Loss Alarm	N.O. (opens on alarm), Opto-FET, 100mA@24VAC/DC; fixed threshold 25% belo
Nechanical:	
Protection Class	NEMA
nvironmental:	
Operating Temperature Range	0° to 50°C (32° to 122°)
Storage Temperature Range	-40° to 70°C (-40° to 158°
Humidity Range	0-95% non-condensin

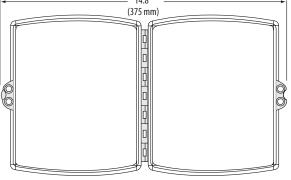
*not supported at >1600A

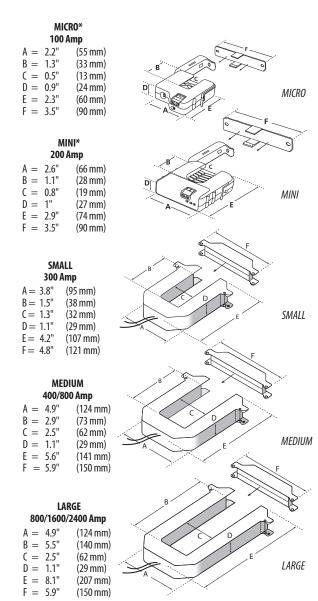
**not supported at >2400A Note: Meter and CT's serial numbers must match



DIMENSIONAL DRAWINGS







POWER/ENERGY MONITORING

ORDERING INFORMATION



120VAC-24	OVAC (nom.)		E207042		
AMPS	ONE CT	TWO CTs	THREE CTs	VOLTAGE	OUTPUT
100 Micro	H8150-0100-0-1	H8150-0100-0-2	H8150-0100-0-3	120VAC L-N	Display Only
200 Mini	H8150-0200-1-1	H8150-0200-1-2	H8150-0200-1-3		
300 Small	H8150-0300-2-1	H8150-0300-2-2	H8150-0300-2-3		
400 Med		H8150-0400-3-2	H8150-0400-3-3		
800 Med		H8150-0800-3-2	H8150-0800-3-3		
800 Lg			H8150-0800-4-3		
1600 Lg			H8150-01600-4-3		
2400 Lg			H8150-2400-4-3		

120VAC-480VAC (nom.)

AMPS	ONE CT	TWO CTs	THREE CTs	VOLTAGE	OUTPUT
100 Micro	H8163-0100-0-1	H8163-0100-0-2	H8163-0100-0-3	120-480VAC	Pulse & Phase Loss
200 Mini	H8163-0200-1-1	H8163-0200-1-2	H8163-0200-1-3		
300 Small	H8163-0300-2-1	H8163-0300-2-2	H8163-0300-2-3		
400 Med		H8163-0400-3-2	H8163-0400-3-3		
800 Med		H8163-0800-3-2	H8163-0800-3-3		
800 Lg			H8163-0800-4-3		
1600 Lg			H8163-01600-4-3		
2400 Lg			H8163-2400-4-3		

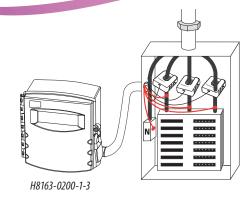
ACCESSORIES

Fuse and Fuseholders (AH02, AH03, AH04) Comms board

800.354.8556



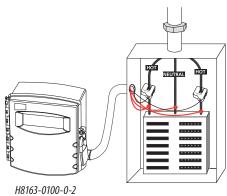
208/120VAC, 4-wire, 3Ø, 200 Amp Service



DATA OUTPUT SPECIFICATIONS

kWh, Consumption kW, Real power kVAR, Reactive power kVA, Apparent power Power factor Voltage, line to line Voltage, line to neutral Amps, Average current kW, Real Power ØA kW, Real Power ØC Power factor ØA Power factor ØB Power factor ØC Voltage, ØA to ØB Voltage, ØB to ØC Voltage, ØA to ØC Voltage, ØA to Neutral Voltage, ØB to Neutral Voltage, ØC to Neutral Amps, Current ØA Amps, Current ØB





120VAC, 2-wire, Single Phase, 100 Amp Service

