

The H8100 Series Energy Meters are easy to install, provide exceptional system

Installing an Energy Meter is simple: just mount the meter, connect the neutral,

same conductor) to the voltage leads. Since the meter automatically detects and

compensates for phase reversal, the concern of CT load orientation is eliminated

To provide excellent total system accuracies of 1% from 2% to 100% of the rating

of the CTs (e.g., 2-100 amps with 100 amp CTs), each meter is factory matched

with quick to install split-core CTs. The meter/CTs are system calibrated.

and the three, colored voltage leads to the power conductors of the electrical

service, and match the CTs (e.g., red voltage lead and red CT must be on the

accuracy, making them ideal for all submetering applications.

and installation time is greatly reduced.

H8100 Series

Commercial Energy Consumption Meters

APPLICATIONS

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

The ultimate stand-alone energy metering system

 High resolution backlit LCD display provides clear readings at a distance and under any lighting conditions...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 provides 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® control systems network to report multiple variables including kW, kWh, kVAR, PF, Amps and Volts, providing crucial power information at a reduced installation cost

Simple, fast installation

- Split-core CTs eliminate the need to remove electrical conductors, greatly reducing installation time
- Energy Meters automatically detect and correct phase reversal, eliminating the need to be concerned with CT load orientation
- CTs and voltage leads are color coded making it easy to determine correct connection

ORDERING INFORMATION

120VAC-240VAC

AMPS	ONE CT	TWO CTs	THREE CTs	VOLTAGE	OUTPUT
100 Micro	H8150-0100-0-1	H8150-0100-0-2	H8150-0100-0-3	120-240VAC	Display Only
200 Mini	H8150-0200-1-1	H8150-0200-1-2	H8150-0200-1-3	120-240VAC	Display Only
300 Small	H8150-0300-2-1	H8150-0300-2-2	H8150-0300-2-3	120-240VAC	Display Only
400 Med		H8150-0400-3-2	H8150-0400-3-3	120-240VAC	Display Only
800 Med		H8150-0800-3-2	H8150-0800-3-3	120-240VAC	Display Only
800 Lg			H8150-0800-4-3	120-240VAC	Display Only
1600 Lg			H8150-01600-4-3	120-240VAC	Display Only
2400 Lg			H8150-2400-4-3	120-240VAC	Display Only

120VAC-480VAC

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	Display Only
200 Mini	H8163-0200-1-1	H8163-0200-1-2	H8163-0200-1-3	120-480VAC	Display Only
300 Small	H8163-0300-2-1	H8163-0300-2-2	H8163-0300-2-3	120-480VAC	Display Only
400 Med		H8163-0400-3-2	H8163-0400-3-3	120-480VAC	Display Only
800 Med		H8163-0800-3-2	H8163-0800-3-3	120-480VAC	Display Only
800 Lg			H8163-0800-4-3	120-480VAC	Display Only
1600 Lg			H8163-01600-4-3	120-480VAC	Display Only
2400 Lg			H8163-2400-4-3	120-480VAC	Display Only

ACCESSORIES

Fuse and Fuseholders, see page 234

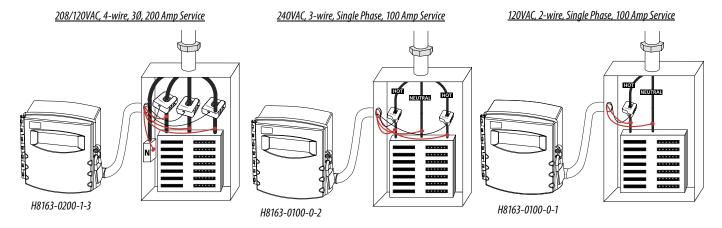




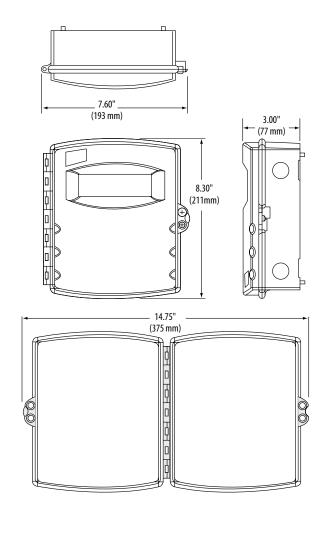


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APPLICATIONS/WIRING EXAMPLES:



DIMENSIONAL DRAWINGS



B = 1.28" (33 C = 0.518" (13 D = 0.915" (24 E = 2.34" (60	5 mm) 8 mm) 5 mm) 4 mm) 4 mm) 0 mm)	B B B B B B B B B B B B B B B B B B B		MICRO
B = 1.10" (28 C = 0.75" (19 D = 1.04" (27 E = 2.90" (74	i mm) mm) g mm) g mm) g mm) g mm)	D A		MINI
\$MALL 300 Amp A = 3.75" (95 m B = 1.51" (38 m C = 1.25" (32 m D = 1.13" (29 m E = 4.20" (107 r F = 4.75" (121 r	m) m) m) nm)	B	F	SMALL
B = 2.89" (73 C = 2.45" (62 D = 1.13" (29 E = 5.57" (14	19 24 mm) 24 mm) 35 mm) 37 mm) 31 mm) 30 mm)	C D		MEDIUM :
B = 5.50" (14 C = 2.45" (62 D = 1.13" (29	Amp 44 mm) 10 mm) 10 mm) 10 mm) 10 mm) 10 mm)	B C	D E	LARGE

E = 8.13" F = 5.92"

(207 mm) (150 mm)



DATA OUTPUT (requires H8163-CB Communication Board)

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 ØB

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

Amps, Current ØC

*not supported at >1600A

**not supported at >2400A

†Do not apply 600V Class current transformers to circuits having a phase-to-phase voltage greater than 600V, unless adequate additional insulation is applied between the primary conductor and the current transformers. Veris assumes no responsibility for damage of equipment or personal injury caused by products operated on circuits above their published ratings.

GENERAL SPECIFICATIONS

1.2" (31mm) x 3.8" (97mm) viewing area,		
160 segments, back-lit with green LEDs		
600VAC†		
1280Hz.		
2500VAC		
0 to 50°C (<95%RH, non-condensing)		
-40°C to 70°C		
from 2% to 100% of the rated current of the CTs		
CTs with a meter and calibrating them as a system		
50VA		
90 - 132VAC line-to-neutral		
90 - 300VAC line-to-neutral		
120/240 VAC with neutral, 208Y/120 VAC line to neutral		
Any service where the phase A-N voltage is \leq 300VAC		
o-phase voltage is≤480VAC nominal with neutral		
50/60Hz.		
N.O., Opto-FET, 100mA @ 24VAC/DC		
0.10*, 0.25**, 0.50, or 1.00 kWh per pulse		
200msec closed		
ly) N.C., Opto-FET, 100mA @ 24VAC/DC.		

Fixed threshold 25% below any other phase. Always open as long as alarm persists



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