



*Integral submetering solution eliminates the need for separate enclosures!*

**5 Year Warranty**

# H8040 Series

*Enercept® Self-Contained Split-Core kW Transducers (4-20mA)*

**APPLICATIONS**

- Optimization of chillers, pumps & cooling towers
- Energy management & performance contracting
- Process control
- Real-time power monitoring

**Reduced installation and setup costs**

- Fast split-core installation eliminates the need to remove conductors
- Precision meter electronics and current transformers in a single package— reduces the number of installed components— huge labor savings
- Smart electronics eliminate the need to be concerned with CT orientation... fast trouble-free installation

**High accuracy**

- ±1% total system accuracy, (10% to 100% of CT rating)

The H8040 Series kW (real power) transducers combine processing electronics and industrial grade CT(s) in an easy to install split-core package. Voltage and current values of the monitored conductors are continuously measured and calculations are updated to provide highly accurate true RMS power readings. Models designed for balanced loads include one CT only, while models for unbalanced loads have three.

The unique design of the H8040 Series transducers reduces the number of installed components, making them ideal for monitoring electrical power in commercial and industrial facilities using industry standard 4-20mA output.

The installation of these meters is simple. Connect the three, colored voltage leads to the three power conductors to be monitored, and attach the matching CT(s) (e.g., red voltage lead and red CT must be on the same conductor). To further simplify the installation, these meters automatically detect and compensate for phase reversal eliminating the concern of CT load orientation.

**ORDERING INFORMATION**

*Single CT Models for Use w/Balanced 3Ø Loads*



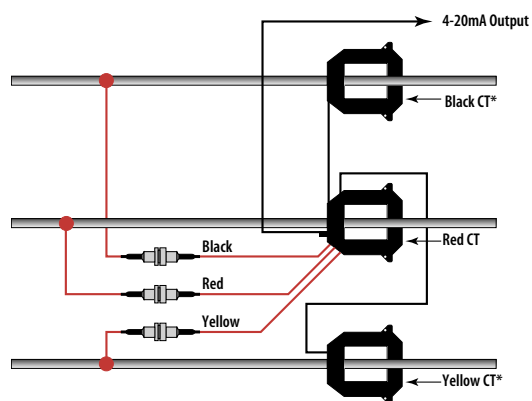
MODEL	VOLTAGE	MAX. AMPS	CT SIZE
H8041-0100-2	208/240	100	SMALL
H8041-0300-2	208/240	300	SMALL
H8041-0400-3	208/240	400	MEDIUM
H8041-0800-3	208/240	800	MEDIUM
H8041-0800-4	208/240	800	LARGE
H8041-1600-4	208/240	1600	LARGE
H8041-2400-4	208/240	2400	LARGE
H8042-0100-2	480	100	SMALL
H8042-0300-2	480	300	SMALL
H8042-0400-3	480	400	MEDIUM
H8042-0800-3	480	800	MEDIUM
H8042-0800-4	480	800	LARGE
H8042-1600-4	480	1600	LARGE
H8042-2400-4	480	2400	LARGE

*Three CT Models for Use with Any 3Ø Load*

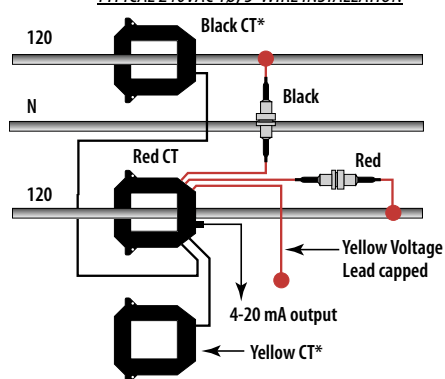
MODEL	VOLTAGE	MAX. AMPS	CT SIZE
H8043-0100-2	208/240	100	SMALL
H8043-0300-2	208/240	300	SMALL
H8043-0400-3	208/240	400	MEDIUM
H8043-0800-3	208/240	800	MEDIUM
H8043-0800-4	208/240	800	LARGE
H8043-1600-4	208/240	1600	LARGE
H8043-2400-4	208/240	2400	LARGE
H8044-0100-2	480	100	SMALL
H8044-0300-2	480	300	SMALL
H8044-0400-3	480	400	MEDIUM
H8044-0800-3	480	800	MEDIUM
H8044-0800-4	480	800	LARGE
H8044-1600-4	480	1600	LARGE
H8044-2400-4	480	2400	LARGE

**APPLICATIONS/WIRING EXAMPLE**

*TYPICAL 208 or 480VAC 3Ø, 3/4 WIRE INSTALLATION*

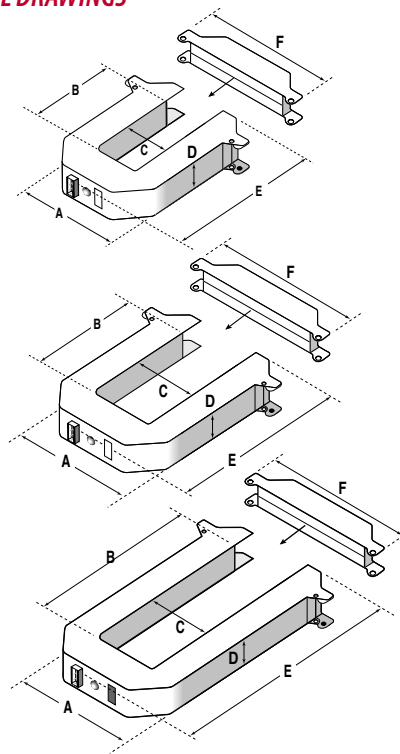


*TYPICAL 240VAC 1Ø, 3-WIRE INSTALLATION*



NOTE: Use Model H8043 or H8044 for 240V single phase systems  
 \*Model H8041 and H8042 do not include these two CTs.

**DIMENSIONAL DRAWINGS**



SMALL 100 Amp 300 Amp	MEDIUM 400 Amp 800 Amp	LARGE 800 Amp 1600 Amp 2400 Amp
A = 3.75" (96 mm)	A = 4.90" (125 mm)	A = 4.90" (125 mm)
B = 1.51" (38 mm)	B = 2.89" (73 mm)	B = 5.50" (139 mm)
C = 1.25" (31 mm)	C = 2.45" (62 mm)	C = 2.45" (62 mm)
D = 1.13" (29 mm)	D = 1.13" (29 mm)	D = 1.13" (29 mm)
E = 3.91" (100 mm)	E = 5.20" (132 mm)	E = 7.88" (201 mm)
F = 4.75" (121 mm)	F = 5.91" (151 mm)	F = 5.92" (151 mm)

**H8040 SERIES SPECIFICATIONS**

<b>Input Primary Voltage</b>	208/240, or 480VAC rms†
<b>Number of Phases Monitored</b>	One or Three
<b>Frequency</b>	50/60 Hz
<b>Maximum Primary Current</b>	Up to 2400 amps cont. per phase†
<b>Internal Isolation</b>	2000VAC rms
<b>Insulation Class</b>	600VAC rms††
<b>Temperature Range</b>	0 to 60°C, 50°C for 2400A
<b>Humidity Range</b>	0 - 95% non-condensing

**Systems Accuracy**  
 ±1% of reading from 10% to 100% of the rated current of the CTs...

accomplished by matching the CTs with a meter and calibrating them as a system	
<b>Output</b>	4-20mA
<b>Supply Power (current loop)</b>	9-30VDC; 30mA max.
<b>Current Transformer</b>	Split-core, 100, 300, 400, 800, 1600, 2400 amps

† Contact factory to interface with voltages above 480 VAC or current above 2400 Amps.  
 †† 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.