



H8050 Series

Enercept® Self-Contained Split-Core kWh Transducers (pulse output)

Applications

- Energy management & performance contracting
- Submetering for commercial tenants
- Activity based costing in commercial and industrial facilities
- 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

- $\pm 1\%$ total system accuracy (H8053 only) conforms to ANSI C12.1 metering standards, 10% to 100% of rating

The Enercept H8050 Series kWh (power consumption) transducers combine processing electronics and industrial grade CT(s) in an easy to install split-core package. Models designed for balanced loads include one CT only, while models for unbalanced loads have three.

The unique design of the H8050 Series transducers reduces the number of installed components, making them ideal for monitoring electrical power in commercial and industrial facilities using industry standard pulse output.

Voltage and current values of the monitored conductors are continually measured and calculations are updated to provide highly accurate true rms power readings.

The installation of these meters is simple. Connect the three, colored voltage leads to the power conductors to be monitored, attach the matching CTs (e.g., red voltage lead and red CT must be on the same conductor) and connect the pulse output.

ORDERING INFORMATION

Single CT Models for Use w/Balanced 3Ø Loads

MODEL	MAX. AMPS	CT SIZE
H8051-0100-2	100	SMALL
H8051-0300-2	300	SMALL
H8051-0400-3	400	MEDIUM
H8051-0800-3	800	MEDIUM
H8051-0800-4	800	LARGE
H8051-1600-4	1600	LARGE
H8051-2400-4	2400	LARGE



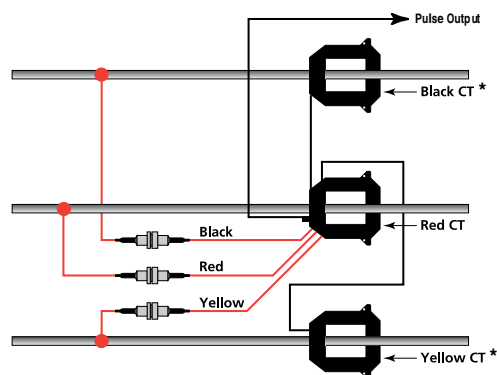
*Model H8051 does not include these two CTs.

Three CT Models for Use with Any 3Ø Load

MODEL	MAX. AMPS	CT SIZE
H8053-0100-2	100	SMALL
H8053-0300-2	300	SMALL
H8053-0400-3	400	MEDIUM
H8053-0800-3	800	MEDIUM
H8053-0800-4	800	LARGE
H8053-1600-4	1600	LARGE
H8053-2400-4	2400	LARGE

APPLICATIONS/WIRING EXAMPLE

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



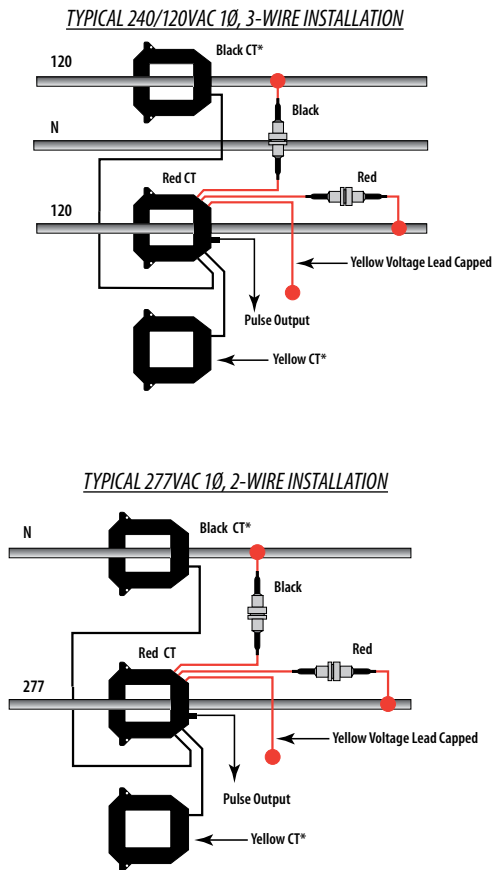
*Model H8051 does not include Black & Yellow CTs.



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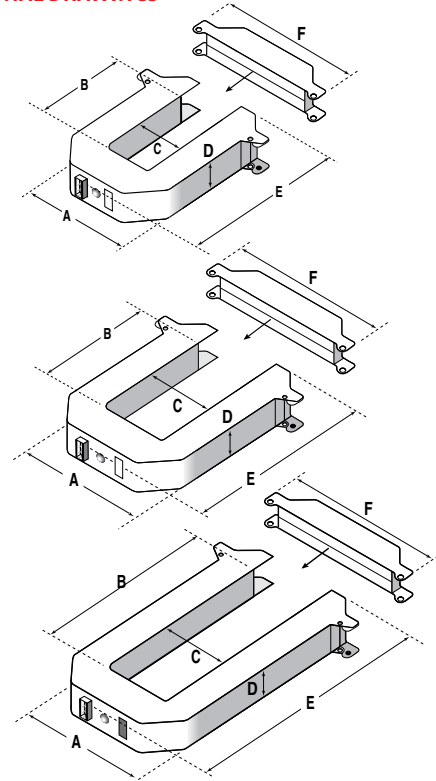


APPLICATIONS/WIRING EXAMPLE



*Model H8051 does not include these two CTs.

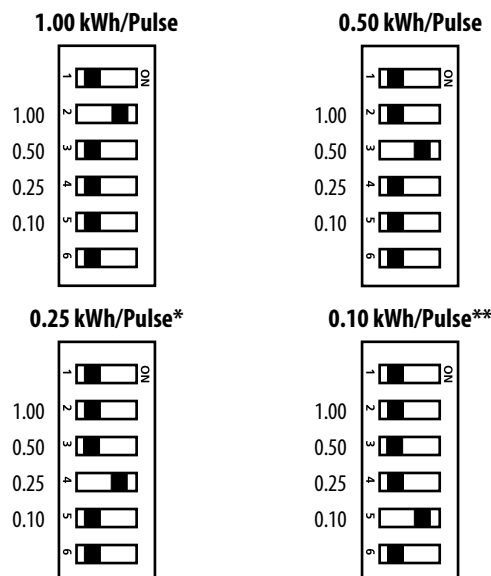
DIMENSIONAL DRAWINGS



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)

125

FIELD-SELECTABLE PULSE OUTPUT



*Not available with 2400 amp CT size

**Not available with 1600 or 2400 amp CT sizes

SPECIFICATIONS

Input Primary Voltage	208 to 480VAC rms†
Number of Phases Monitored	One or Three
Frequency	50/60Hz
Maximum Primary Current	Up to 2400 amps cont. per phase†
Internal Isolation	2000VAC rms
Insulation Class	600VAC rms††
Temperature Range	0 to 60°C, 50°C for 2400A
Humidity Range	0 - 95% non-condensing
Pulsed Output	Field-selectable; 1, 0.5, 0.25, 0.1 kWh/pulse*
Pulsed Output Type	Normally Open, Opto-FET, 100mA@24VDC
Pulse Width	200 msec
Current Transformer	Split-core, 100, 300, 400, 800, 1600, 2400 amps

* Count must be multiplied by the number of phases when using single CT models to monitor balanced multiphase systems.

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