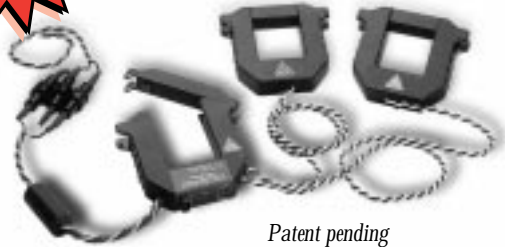


## H8050 SERIES

# Enercept® Self-contained Split-core kWh Transducers (pulse output)



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



*Patent pending*

### DESCRIPTION

The 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.

The transducer instantaneously samples the voltage and current in the monitored conductors to measure and report true RMS power consumption.

The installation of these meters is simple. Connect the three colored voltage leads one at a time to the three power conductors to be monitored, and attach the matching CTs (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.

POWER TRANSDUCCERS

### 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

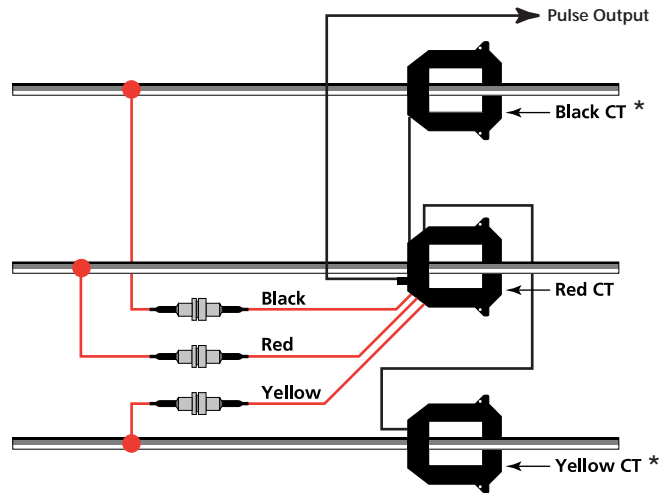
- Fast split-core installation eliminates the need to remove conductors
- Precision meter electronics and current transformers in a single package...reduces the number of installed components...Huge labor savings
- Smart electronics eliminate the need to be concerned with CT orientation...fast trouble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

### High Accuracy

- ±1% accuracy conforms to ANSI C12.1 metering standards (H8053 only)

### APPLICATIONS or WIRING DIAGRAM

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



\*Model H8051 does not include these two CTs.

### Ordering INFORMATION

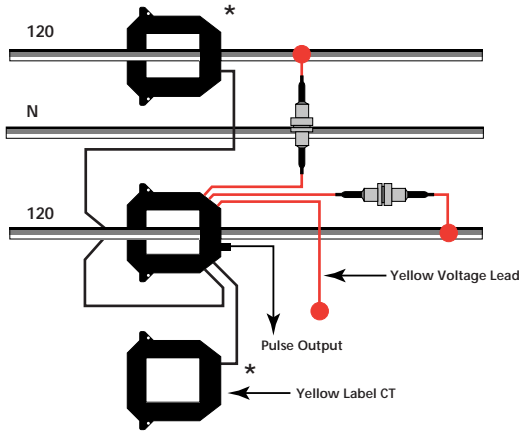
#### SINGLE CT MODELS FOR USE ONLY WITH BALANCED LOADS

MODEL	MAXIMUM 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

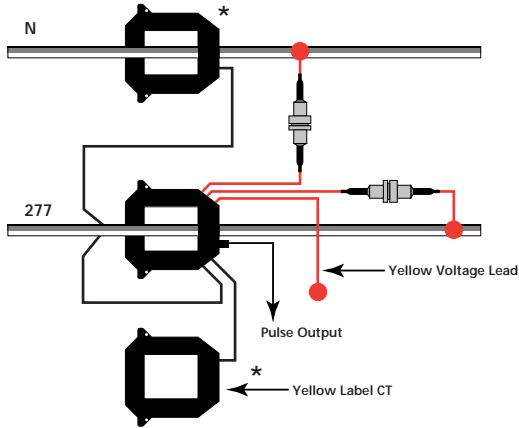
#### THREE CT MODELS FOR USE WITH ANY 3Ø LOAD

MODEL	MAXIMUM 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

**TYPICAL 240/120 VAC 1Ø, 3-WIRE INSTALLATION**



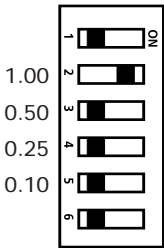
**TYPICAL 277 VAC 1Ø, 2-WIRE INSTALLATION**



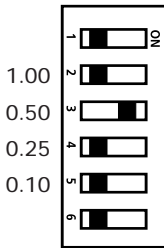
\*Model H8051 does not include these two CTs.

**FIELD SELECTABLE PULSE OUTPUT**

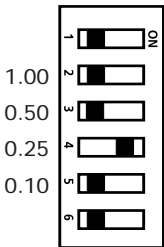
**1.00 kWh/Pulse**



**0.50 kWh/Pulse**

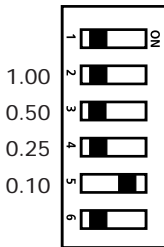


**0.25 kWh/Pulse**



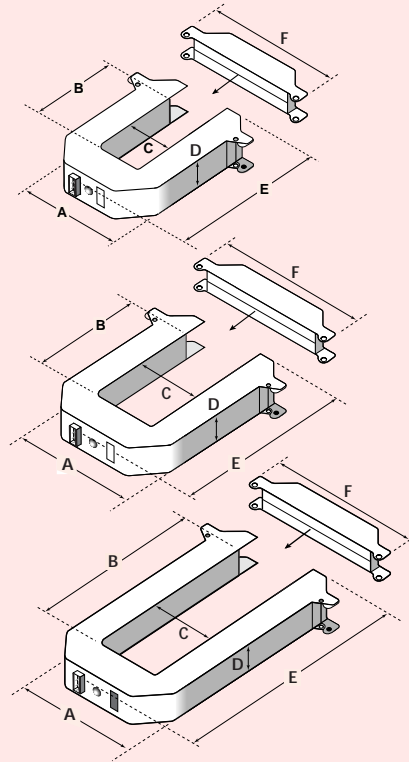
Not available with 2400 amp CT size

**0.10 kWh/Pulse**



Not available with 1600 and 2400 amp CT sizes

**DIMENSIONAL DRAWINGS**



SMALL 100 Amp (-2) 300 Amp	MEDIUM 400 Amp (-3) 800 Amp	LARGE 800 Amp (-4) 1600 Amp (-4) 2400 Amp
A = 3.75" (95 mm)	A = 4.90" (124 mm)	A = 4.90" (124 mm)
B = 1.51" (38 mm)	B = 2.89" (73 mm)	B = 5.50" (140 mm)
C = 1.25" (32 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" (99 mm)	E = 5.20" (132 mm)	E = 7.88" (200 mm)
F = 4.75" (121 mm)	F = 5.91" (150 mm)	F = 5.92" (150 mm)

**H8050 SERIES SPECIFICATIONS**

- Input Primary Voltage ..... 208 to 480 VAC rms
- Number of Phases Monitored ..... One or Three
- Frequency ..... 50/60 Hz
- Maximum Primary Current ..... Up to 2400 amps cont. per phase
- Internal Isolation ..... 2000 VAC rms
- Case Insulation ..... 600 VAC rms
- Temperature Range ..... 0 to 60° C
- Humidity Range ..... 0 - 95% non-condensing
- Accuracy ..... ±1.0% (ANSI C12.1 - H8053)
- Pulsed Output ..... Field selectable; 1, 0.5, 0.25, 0.1 kWh/pulse\*
- Pulsed Output Type ..... Normally Open, Opto FET, 100 mA @24 VDC
- 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

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