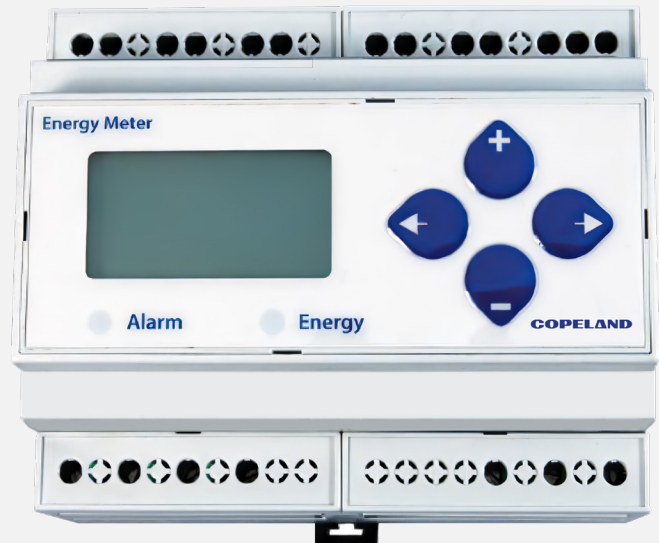


# Enhanced power and energy meter

## Versatile energy monitoring solution

- Modbus power meter with unique phase failure alarm feature allow this device to suit a wide variety of applications
- Compatible with a wide range of current transformers for ease of retrofit and electrical safety
- User-enabled password protection guards against tampering
- Native integration with E2 Facility controller
- Can be installed on a standard DIN rail or surface mounted as needed



### Specifications

#### Inputs:

Control power, AC 50/60 Hz; 5VA max.; 90V min.;  
UL maximums: 600V L-L (347V L-N);  
CE maximums: 300V L-N (520V L-L)  
Control power, DC 3W max.; UL and CE: 125 to  
300VDC (external DC current limiting required)  
Voltage input UL: 90 V L-N to 600 V L-L;  
CE: 90 V L-N to 300 V L-L

#### Current input:

Scaling 5 A to 32,000 A  
Input range 0 to 0.333 V or 0 to 1 V (selectable)

#### Accuracy:

Real power and energy 0.5% (ANSI C12.20, IEC  
62053-22 Class 0.5S)

#### Outputs:

Real energy pulse: N.O. static; alarm contacts:  
N.C. static

#### Mechanical:

Mounting DIN rail or 3-point screw mount

#### Environmental:

Operating temperature range -30° to 70°C  
(-22° to 158°F)  
Storage temperature range -40° to 85°C  
(-40° to 185°F)  
Humidity range <95% RH noncondensing  
UL listed, CE, California CSI Solar, ANSI C12.20

## Ordering information - 250-5000

### Measurement capability - full data set

Power (3-phase total and per phase)  
- Real (kW), reactive kVAR and apparent (kVA)

Power factor: 3-phase average and per phase

Present power demand - Real (kW), reactive (kVAR) and apparent (kVA)

Peak power demand - Real (kW), reactive (kVAR) and apparent (kVA)

Current: (3-phase average and per phase)

Voltage - Line-line and line neutral:  
(3-phase average and per phase)

Frequency

Accumulated energy - Real (kWh), reactive (kVARh), and apparent (kVAh)

Configurable demand subinterval

Demand interval configuration: Fixed or rolling block

Demand interval configuration: External sync to comms

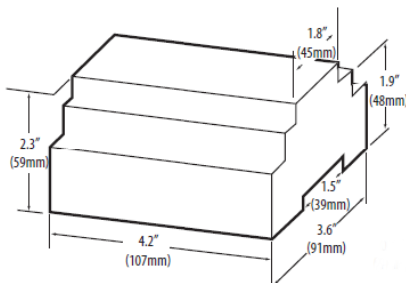
### Outputs:

Alarm output (N.C.)

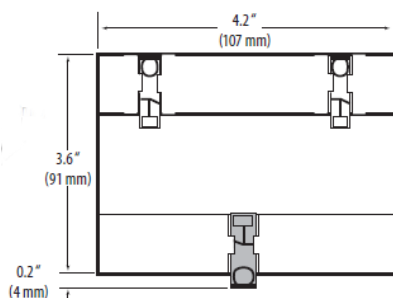
1 Pulse output (N.O.)

RS-485 serial (Modbus RTU protocol)

## Dimensional diagram



## Mounting diagram



## Ordering information - 250-5000

Order code	Split core	Order code	Solid core
251-1000	5 Amp, CT, 0.75"	251-1020	5 Amp, CT, 0.30"
251-1001	15 Amp, CT, 0.75"	251-1021	15 Amp, CT, 0.50"
251-1002	30 Amp, CT, 0.75"	251-1022	30 Amp, CT, 0.50"
251-1003	50 Amp, CT, 0.75"	251-1023	50 Amp, CT, 0.75"
251-1004	70 Amp, CT, 1.75"	251-1024	70 Amp, CT, 0.75"
251-1005	100 Amp, CT, 1.25"	251-1025	50 Amp, CT, 1.00"
251-1006	150 Amp, CT, 1.25"	251-1026	70 Amp, CT, 1.00"
251-1007	250 Amp, CT, 1.25"	251-1027	100 Amp, CT, 1.00"
251-1008	300 Amp, CT, 1.25"	251-1028	150 Amp, CT, 1.00"
251-1009	400 Amp, CT, 1.25"	251-1029	200 Amp, CT, 1.00"
		251-1030	70 Amp, CT, 1.25"
		251-1031	100 Amp, CT, 1.25"
		251-1032	200 Amp, CT, 1.25"
		251-1033	250 Amp, CT, 1.25"
		251-1034	300 Amp, CT, 1.25"

## Rogowski coil current transformer listings

Order code	18" length	Order code	Solid core
261-5102	250 Amp	261-5220	2000 Amp
261-5104	400 Amp	261-5230	3000 Amp
261-5105	500 Amp	261-5240	4000 Amp
261-5110	1000 Amp	261-5250	5000 Amp
261-5120	2000 Amp		
261-5130	3000 Amp		
261-5140	4000 Amp		
261-5150	5000 Amp		

## Intelligent Store® architecture

Integrating facility hardware with Copeland's ProAct® service offerings allows retailers to capitalize on their infrastructure investments and further reduce operational costs. Over time, efficiencies gained from infrastructure investments will erode if not properly maintained. Copeland's facility experts offer free analysis of operational data and prescribe a customized set of solutions to target areas needing improvement. For more information on Copeland's services, visit [copeland.com](http://copeland.com).

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