

GLOBAL POWER PRODUCTS

ENER-COMM Solid-State Energy Meter

The meter *for choice* in a deregulated electricity market



**AMR Now or Later, & What Kind?
the choice is yours...**

Global Power Product's ENER-COMM Solid-State Auto Ranging Power Supply Energy Meter is a low-cost, all-electronic and versatile open system. The unique design of the ENER-COMM supports numerous choices of Automated Meter Reading (AMR) technologies that are beginning to emerge. The ENER-COMM open-platform meter with a Cyclometer or LCD Kilowatt-hour register offers a full spectrum of AMR choices.

Why deal with proprietary protocols?

0.2% Accuracy!

The data communications from ENER-COMM to plug-in modules utilizes the **ANSI C12.18 communications protocol** and the **ANSI standard C12.19 data tables**.

Features:

- ◆ Auto Ranging Power Supply, 240V, 60Hz, Single Phase, 3-Wire, 5 Amp through 5000 Amp
 - ◆ Low cost, AMR-ready meter with Cyclo Meter for energy display
 - ◆ Modular design, open architecture
 - ◆ NEMA 4X Indoor or Outdoor Enclosure
 - ◆ Data can be processed and stored at the meter or can be processed by the communications electronics that gives you more choice
 - ◆ Supports real-time metering, Time-of-Use (TOU), load profiling, load management.
 - ◆ Compatible with Power-Line-Carrier, CEBus, LonWorks, RF two-way, cellular, satellite, two-way paging, telephone and cable modems
 - ◆ 240VAC and 12VDC provided to communications module
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Communications Options:

The ENER-COMM will accept a variety of communication modules that allow utilities and property management to stay with the type of communications technology that they currently have in place. Groups that are undecided as to the communications technology they plan to use, can install the ENER-COMM first as a basic Cyclometer or LCD readout energy meter and deal with the communications issue later.

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Meter Type/Description

General	Kilowatt-hour Meter, Solid State, Utility Revenue Class
Measurement Register	Kilowatt-hour (Energy), 7 Digit Cyclometer
Meter Class	Class 200 (200 Amp)
Form	Form 2S, Form 5S and CT Rated 5 Amp – 3000 Amp
Service	1 Phase 3 Wire, 120/208 Network, 120/208 3P4W Wye, Socket, 2N1, Transducer, or 6 Unit MMP (Multi Meter Panel)
Meter Configurations	240V Delta, 277/480V 3P4W Wye

Absolute Maximum Range

Line-Line Voltage	300 VAC
Current Withstanding (each line)	220A Continuous, 500A Peak for 1 Second
<u>Voltage Withstanding</u>	
Surge:	
ANSI C37.90.0	
Oscillatory	2.5kV, 2500 strikes
Fast Transient	5kV, 2500 strikes
ANSI C62.41	
Surge	6kV @ 1.2/50ms, 10 strikes
IEC 801-4	
Repetitive Burst	4kV, 2.5 kHz for 60 seconds
Dielectric	ANSI C12.10
	2.5V rms., 60Hz, 60 seconds

Operating Ranges

Current:	Continuous CT Rated
Line Voltage:	90 to 288VAC
Frequency:	50 or 60 Hz, +/- 5%
Temperature Range:	-40 to +85 Celsius (LCD readable)
Humidity Range:	to 90% RH, non-condensing

Operating Characteristics

Burden, Typical	
Power Supply:	< 2 watts
Current Burden:	2.5 ohm at ambient
Voltage Burden:	0.030 watt
Start-up Delay:	< 2 seconds, power application to pulse accumulation
Starting Load Current	
Typical:	< 50 milliamperes
Guaranteed:	100 milliamperes
No Load (Creep)	
	Per ANSI C12.10 – no pulse accumulation over a 24 hour period with line potential applied and with no current flowing in the current circuit.

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