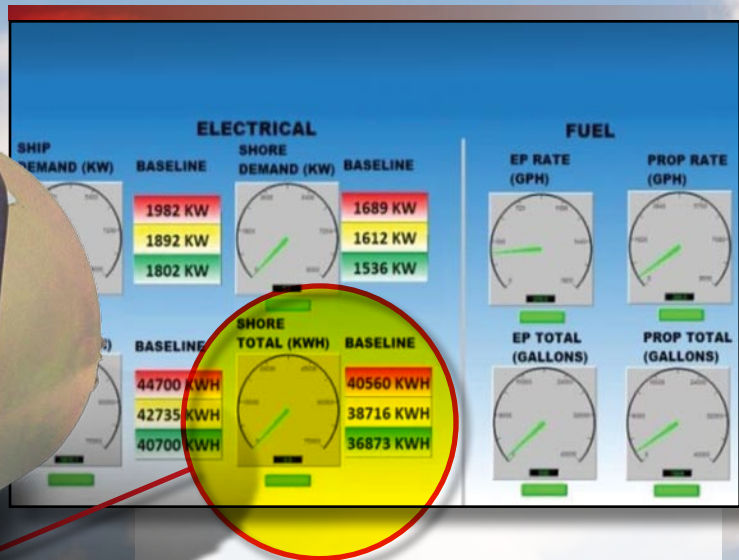


# ORCA Shore Power Meter

## FINALLY, SHORE POWER USAGE RIGHT ON YOUR DASHBOARD!



### THE IN-PORT POWER METER

#### **KNOW EXACTLY HOW MUCH SHORE POWER YOU'RE USING**

- Integrated into Green Fleet Energy Dashboard through ICAS
- Accurate, Revenue-Grade ANSI Metering
- Already Deployed on 6 Naval Vessels
- Easy Mount into Existing Ammeter Footprint
- Only \$3500 | Pays for Itself After One Port Visit
- Finally, Accurate In-Port Billing

**OSI** Ohio Semitronics, Inc.





## A Ruggedized Shore Power Meter Integrated with ICAS for Your Energy Dashboard

The Model SPM-4823(-x) is a full-featured, multi-phase power and energy meter. Measurements include voltage, current, power, power factor, frequency and energy. Demand interval metering is also provided.

Operator interface is accomplished through a 4.3-inch, color, touch-screen, LCD display. Systems integration flexibility is provided by standard and optional communication interfaces that include USB ASCII, RS-485 ModBus RTU and ModBus TCP.

The meter mounts directly into an ANSI C39.1 or KX-241 panel cutout making it an ideal replacement for older analog switchboard meters. It is designed to meet military shock, vibration and EMI requirements, as well as ANSI "Revenue Grade" codes C12.1 and C12.20.

### FEATURES

- 0.2 class accuracy
- 4.3-inch, color, touch-screen LCD display
- Fits ANSI C39.1 or KX-241 panel cutout
- Designed to meet military shock, vibration and EMI requirements as well as ANSI "Revenue Grade" codes C12.1 and C12.20

MODEL SELECTION	
MODEL SUFFIX	COMMUNICATION OPTION
(none)	USB 2.0 (standard)
-1	RS-485 Modbus RTU
-2	ModBus TCP

**“Know exactly how much shore power you are using.”**



### ORDERING INFORMATION

Example: Multi-Phase Power and Energy Meter with Modbus TCP Communication Option SPM-4823-2

## SPECIFICATIONS

### MEASURED PARAMETERS

Voltage .....	Instantaneous ....	L-L (3 ea.), L-N (3 ea.)
Current .....	Line .....	(3 ea.)
	Average .....	(1 ea.)
Power .....	Watts Received(1ea.), Delivered	(1 ea.)
	VA .....	(1 ea.)
	VAR .....	(1 ea.)
Pwr. Factor.....	Signed .....	(1 ea.)
Frequency.....	Hz .....	(1 ea.)
Energy.....	Wh Received (1 ea.), Delivered	(1 ea.)
	VA-Hr .....	(1 ea.)
	VAR-Hr.....	(1 ea.)
Demand .....	Fixed and Rolling Average	

### COMMUNICATION | ICAS INTEGRATED

Standard...USB 2.0 ASCII protocol, front-panel connector  
 Option ..... RS-485 ModBus RTU, rear-panel screw term.  
 Option ..... ModBus TCP, RJ-45 connector

### ACCURACY (0.1% F.S. to 100% F.S)

Voltage, Current ..... 0.2% F.S.  
 Watts, VAR, VA ..... 0.2 Class  
 Wh, VA-Hr, VAR-Hr, PF..... 0.2 Class  
 Frequency .... 50,60Hz Ranges ..... ±0.03Hz

### INTERFACE

Display ..... 4.3in., color, touch-screen, LCD

