



Classification: Small Business
DUNS: 00-429-5705
NAICS: 334515, 541715
Cage Code: 12066

Capabilities Statement

General Overview

OSI measures electrical and electromagnetic properties in a variety of commercial, petrochemical and defense environments. We presently supply over 400 measurement devices to over 300 surface and sub-surface vessels, as well as multiple aircraft and land-based systems.

OSI can:

- Apply existing commercial technologies to defense measurement challenges in a ruggedized and/or hardened format.
- Develop new technologies for unique measurements in similar formats.
- Rapid prototyping of circuit boards and enclosures for proof of concept designs in a matter of weeks.
- Extend program life by adapting or developing technologies to match specific performance and footprint requirements of obsolete parts.

Current Sensing

AC, DC, Variable Frequency
Milliamps to > 100,000Amps Current Sensing
DC to 100kHz Bandwidth
-55° to +125° C Operating Temperature
Microsecond Response
AC or DC Instrument Power

Voltage Measuring

AC, DC, Variable Frequency
Millivolts to 7.5kV Voltage Measuring
DC to 10kHz Frequency
-20° to +80°C Operating Temperature
AC or DC Instrument Power

Frequency Monitoring

AC and Variable Frequency
0-1,000 Hz Frequency Monitoring
Millisecond Response
-20° to +80°C Operating Temperature
Self-Powered or AC Instrument Power
EMI Protected

Power Monitoring

Power (Watts)	Volt-Amps
Energy (KWH)	Panel Mount Display
Reactive Power (VAR)	Remote Displays
Reactive Energy (VARH)	Limit Alarms
Current	Serial Communication
Voltage	Analog Outputs
Frequency	RMS readings
Power Factor	Capable of monitoring distorted waveforms



Naval Vessels

Los Angeles Class Submarines (SSN688)

Battery Ampere Charge/Discharge
Battery Temperature Monitoring/Alarm

Ohio Class Submarines (SSBN 726)

Battery Ampere Charge/Discharge
Battery Temperature Monitoring/Alarm

Seawolf Class Submarines (SSN 21)

Battery Ampere Charge/Discharge
Battery Temperature Monitoring/Alarm

Virginia Class Submarines (SSN 774)

Ionic Current Monitoring
Propeller Shaft Current Sensing
Battery Ampere Charge/Discharge
Battery Temperature Monitoring/Alarm
DC Bus Current/Voltage Monitoring
Switchgear Power Distribution Monitoring
Magnetic Bearing Current Monitoring

Wasp Class Assault Ships (LHD)

Generator Power Monitoring

Tarawa Class Assault Ships (LHA)

Generator Power Monitoring
Weapons Positioning

Emory S. Land Class Submarine Tender (AS)

Auxiliary Power Monitoring

San Antonio Class Transport Docks (LPD)

Switchgear Power Distribution Monitoring

Enterprise Class Aircraft Carrier (CVN65)

Propeller Shaft Frequency Monitoring
Auxiliary Power Monitoring

Nimitz Class Aircraft Carrier (CVN68)

Switchgear Power Distribution Monitoring

Gerald R. Ford Class Aircraft Carrier (CVN78)

Switchgear Power Distribution Monitoring

Ticonderoga Class Cruiser (CG47)

Weapons Positioning

Arleigh Burke Class Destroyer (DDG51)

Shore Power Monitoring
Weapons Positioning
Power Electronics Current Monitoring

Zumwalt Class Destroyer (DDG1000)

Power Electronics Current Monitoring
IFTP Current Monitoring

Whidbey Island Class Dock Landing (LSD41)

Propeller Shaft Frequency Monitoring

Harpers Ferry Class Dock Landing (LSD49)

Generator Power Monitoring

Cyclone Class (PC)

Chiller System Power Monitoring