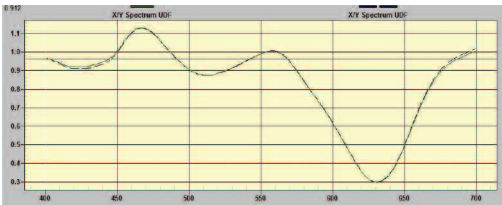


Process Spectral Measurement Sensor

Product Summary

The Process Spectral Measurement Sensor (SMS) from MicroOptix Technologies is designed to provide customers the ability to take real-time liquid measurements in process environments. This system allows users to test the properties of liquids where and when they want. The SMS System is versatile enough to be used in a process environment or in stand alone OEM equipment applications.

SMS Data From On-Line System



Markets and Applications

Process Plant

- Process Monitoring & Control
- Quality Assurance & Control
- New Product Research

Water Distribution Systems

- Remote Water Quality Measurements
- Contaminant Detection & Alarming
- OEM Water Measuring Products

Systems and OEM Equipment

- Remote Water Monitoring Systems
- Stand Alone Water Analysis Systems
- OEM Liquid Process Equipment

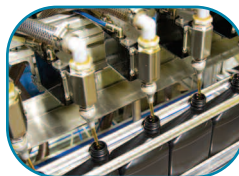


The Process Spectral Measurement Sensor (SMS)

from MicroOptix Technologies is a versatile and powerful system for measuring liquid process variables. The sensor system can be deployed into a process application as a spectral sensor-transmitter that sends process data to a host PC, PLC or DCS system. The spectral process data collected from the SMS allows users to capture and record process specific data which enables improved real-time process monitoring and control. The SMS System utilizes MicroOptix Technologies patented, integrated sensing system technology. This technology miniaturizes the core optical system utilized within traditional spectrometers. This technology advancement enables the SMS product to measure and monitor a variety of liquid compounds and parameters previously requiring



off-line analysis in the lab. When the SMS is utilized as part of an automated sampling system, it can capture water and process data that typically requires manual sample taking, and remote testing on specialized laboratory equipment. The SMS System features a powerful PC software program allowing users to build custom data measurement methods that simplify data analysis. The overall capabilities of the SMS System allow users to “take the lab to the process” and accomplish real-time quality control and process monitoring at significantly lower costs than current process measurement systems.



“Take your Lab to the Process!”

Key Features

Versatile Measurement Capabilities

Measures spectral properties of liquids for Process Monitoring and Quality Assurance & Control (QA/QC) applications.

Installation Flexibility

Available as an on-line, or in-line, sensor system for stand alone and process liquid measuring applications. The SMS System can be deployed into a process sampling and measurement system. It can also be integrated into a fluid monitoring system for Original Equipment Manufacturer (OEM) applications.

Powerful PC Software

Allows users to analyze the spectral data generated by the sensor system. Custom measurement methods can be defined with the PC software in order to measure specific fluid properties.



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Process Spectral Measurement Sensor

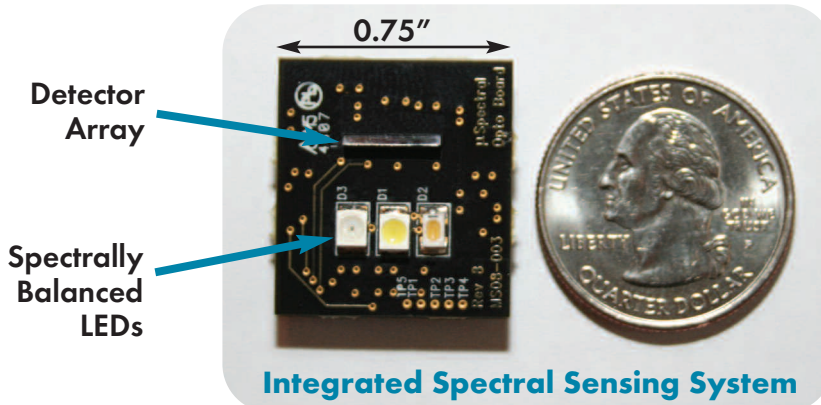
Technology Overview

The Spectral Measurement Sensor features our patented, integrated sensing system technology. The technology consists of a linear variable filter that is optically coupled to a photodiode array detector and high stability, low power LED light sources.

Specifications

Wavelength Range	400 - 700 nm • Visible Model 650 - 1050 nm • NIR Model
Bandwidth	4 - 7nm • Visible Model 6.5 - 10.5nm • NIR Model
Light Source	Spectrally Balanced LEDs
Detector	Linearized Photo Diode Array, 128 pixels
Inputs	LED Control, Sensor Control, Power, Ground
Outputs	Digital Serial Pixel Data

Manufacturing Specifications Subject to Change



The Spectral Measurement Sensor (SMS) is ideal for compact on-line liquid measurement applications.

Product Selection

SMS Part Number Matrix

	Spectral Measurement Range	Sensor Enclosure	Sample Chamber
SMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	V - Visible (400 - 700 nm) N - NIR (650 - 1050 nm) C - Custom	1 - General Purpose 9 - Custom	9 9 Custom
Example	SMS <input type="checkbox"/> V	<input type="checkbox"/> 1	<input type="checkbox"/> 9 9

Spectral Measurement Sensor for Visible Light Range in General Purpose Enclosure with custom sample measurement chamber



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