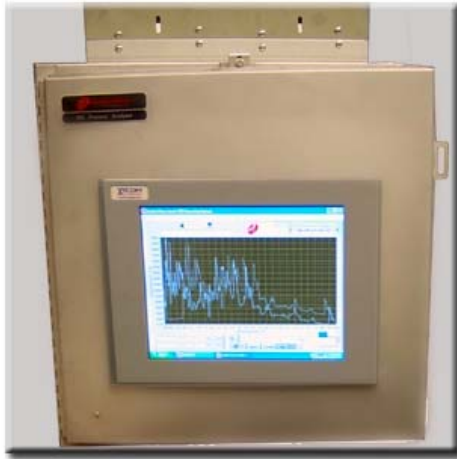




# Model 508 Process Analyzer

The Guided Wave Model 508 Process Analyzer is a multi-channel, fiber optic, UV-VIS spectrophotometer system designed for use in process environments. Configurable with up to 4 channels, the Model 508 comes in a NEMA 4x enclosure with built-in thermal control to enable the most consistent performance possible while in 24/7 service mode. Up to 16 parameters may be monitored on each channel making it suitable for many applications in chemical and polymer plants, refining and petrochemical, pharmaceuticals and other specialty chemicals, paints and varnishes, adhesives, wastewater management, biotech, etc. It has a built-in computer control unit with touch screen for convenient user interfacing to the Windows™ operating software.



## Reliable, Rugged, and Flexible

By partnering with Guided Wave you gain the advantage of 20+ years focusing on the on-line analytical needs of the chemical processing industry. Our entire product line is designed and developed to meet the challenges of the production environment. We favor modular, units exemplified by the 508's "snap tight" installation dock. The Xenon source lamps last for up to two years.

## Features

- Rapid data collection with *enhanced* diode array miniaturized optical bench
- Built-in Instrument Control Unit (Windows™ PC) with touch screen
- Analyzer control program developed in Lab VIEW™ featuring customizable settings & trending capability
- Modbus communications with built-in event setup. Optional Opto-22 panel and communications for analog and discrete interfacing
- Compatible with Guided Wave's proven probe and flow cell products
- Fully insulated NEMA 4X enclosure with built in Internal Thermal Control
- Full spectrum scanning, 235 nm to 850 nm
- Multi-channel design from 1 to 4 channels
- Individual pulsed Xenon source on each channel
- Unscrambler® Calibration Model Ready (with option Unscrambler® Predictor)
- Simple B-Vector and formulaic models
- Built-in Color Analysis
- User definable prediction engine
- File formats - GW ASCII/BINARY and Galactic SPC

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Literature: #1023-11-06

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## Specifications

Wavelength Range	235 nm – 850 nm
Wavelength Accuracy	±0.1 nm
Photometric Noise	0.001 @ 0 AU, 550 nm
Stray Light	< 0.1 % @ 220 nm
Number of Pixels	1024
Bandwidth	< 3 nm
Dynamic Range	2000:1 for a single scan
Fiber Optic Connections	SMA 905
Instrument Control Unit (ICU) (X Purge enclosure only)	Call Factory for options.
Operating System	Windows® XP
Temperature Range	0 °C to 40 °C
Internal Thermal Control	±0.5 °C between 30 °C and 40 °C
Humidity	10% to 90% RH, non-condensing
Power	110/220 Vac 50/60 Hz, 1500 W
Dimensions (w x d x h)	24"x 17.7" x 29.3" [61 cm x 44.9 cm x 73.4 cm] -OR- 30"x 17.7" x 41.3" [76 cm x 44.9 cm x 105 cm]
Weight	200 lbs [91 kg]

## Options

- Class 1 Div 2 Groups C & D, Z-Purge
- Class 1 Div 1 Groups C & D, X-Purge\*
- ATEX Certified Purge\*
- SNAP I/O analog and discrete communications package by Opto-22
- Unscrambler® online predictor

\* With PC mounted in non-hazardous area.

*Specifications are subject to change without notice.*

## Applications

- L\*a\*b\* and other color coordinates
- Solvent recovery purity
- Maleic acid in tetrahydrofuran (THF)
- Tert-butyl catechol (TBC) polymerization inhibitor in butadiene???
- Trace (ppm level) impurities in wash water; Clean-In-Place for Pharma
- Polynuclear aromatics (PNA's) in middle distillates
- Phenol in cyclohexanone
- Sodium hypochlorite in bleach solutions
- Aromatics in monomers Benzene in cyclohexane
- Saybolt or ASTM color of diesel and jet fuels
- Toluene diisocyanate in polyurethane
- UV inhibitors in polymers
- Antioxidants in polymers and plastics
- Color and clarity of varnishes

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