

PL Series

GL

Real Tech's continuous online spectroscopy analyzer series provides highly accurate, easy to use and affordable real time process monitoring across the whole spectrum of UV and/or visible light, which allows for the rapid detection of many common and emerging contaminants.

Our spectrum analyzers can provide multi-component measurement capabilities. They are able to extract and isolate concentration information about one or more chemical components of concern in water even when an unknown mixture of other chemical components is also present in the water.



SPECTROPHOTOMETER (OPTICAL SPECTRAL SENSOR), ULTRAVIOLET (UV) / VISIBLE SPECTROMETER

MULTIPLE PARAMETER ANALYSIS

ONLINE (IN-LINE) REAL-TIME (CONTINUOUS)

ACCURATE, STABLE, RELIABLE, PRECISE

FAST RESPONSE

ROBUST, SMART DESIGN

CONFIGURABLE, CUSTOMIZABLE

SIMPLE OPERATION, EASY TO USE

GLOBAL CALIBRATION AND CUSTOM CALIBRATION OPTIONS

EASY INSTALLATION AND MINIMAL MAINTENANCE

EXCEPTIONAL TECHNOLOGY, INNOVATIVE

AUTOMATIC CLEANING OPTIONS

AUTOMATIC CALIBRATION/ZEROING

REAGENT FREE

Whether your application is for wastewater or high purity (ultrapure) water, our spectrum analyzer product series can be configured and customized for your specific water type.

Water quality parameters which can be detected with any of our Spectrum series analyzers include TOC, DOC, COD, BOD, BTX, Colour, Turbidity, NO₂, NO₃, among others. Spectrum series analyzers can be used for more complex water systems where the additional information provided by the full absorption spectra (PL series) or the addition of select wavelengths (GL series) allows for improved correlations and measurement capabilities. Real Tech offers in-house custom software correlations to meet the needs of each client's unique site specific requirements.

REAL SPECTRUM ANALYZER SERIES

UNITS	cm ⁻¹
SAMPLING TIME	1 minute
FLOW RATE	300 - 800 mL / min
CALIBRATION	Exclusive technologies allow for continuous automatic calibration during operation
CLEANING	Automatic cleaning optional
SELF DIAGNOSTICS	Continuous detection of leaks, lamp output, humidity, temperature and electrical fault
DISPLAY	Backlit LCD with LED alarm indicator (optional 10" colour LCD 800x600 with Touch Panel PC)
OPERATOR INTERFACE	Heirarchical menu system with push button control (optional touch screen graphical interface with Touch Panel PC)
ALARMS	Onscreen alarms and dry contacts to signal alarm condition
HUMIDITY CONTROL	Humidity sensor with large plug-in regeneratable desiccant system
OUTPUTS	• Most common communication protocols available ie. MODBUS • Datalogging via RS232, RS485, 4-20mA (Ethernet and USB drive with Touch Panel PC option)
DIMENSIONS	16"H x 20"W x 8"D
ENCLOSURE	IP66, NEMA 4, wall mountable
FLUID CONNECTIONS	1/4" tube push-in fittings in/out
ELECTRICAL	24 VDC 120W power adapter included (power adapter accepts 90-250 VAC 50/60 Hz)
STORAGE TEMP	-20 to 60°C (-4 to 140°F)
OPERATING TEMP	0 to 45°C (32 to 113°F)
WARRANTY	2 year limited warranty
OPTIONS	• Dual Feed • Real Clean System • Pump Systems • Touch Panel PC

PLATINUM SERIES	PL2000 SERIES	PL3000	PL4000
ACCURACY		± 0.5 % FS	
RANGE	0 - 13.0 A	0 - 1.3 A	0 - 0.05 A
PATHLENGTH	1mm, 2mm, 4mm	10 mm	250 mm
WAVELENGTH RESOLUTION		~ 1 nm	
WAVELENGTH		200-380 nm (200 - 750 nm with Platinum Visible Plus option)	
LIGHT SOURCE		Deuterium Lamp (Deuterium + Tungsten with Platinum Visible Plus option)	
LAMP LIFE		4000 hrs	

GOLD SERIES	GL2000 SERIES	GL3000	GL4000
ACCURACY		± 2 % FS	
RANGE	0 - 13.0 A	0 - 1.3 A	0 - 0.05 A
PATH LENGTH	1mm, 2mm, 4mm	10 mm	250 mm
WAVELENGTH RESOLUTION		configurable up to 40 wavelengths over full range	
WAVELENGTH		200-750 nm	
LIGHT SOURCE		Xenon Flash Lamp	
LAMP LIFE		2 - 5 years (dependant on application)	