

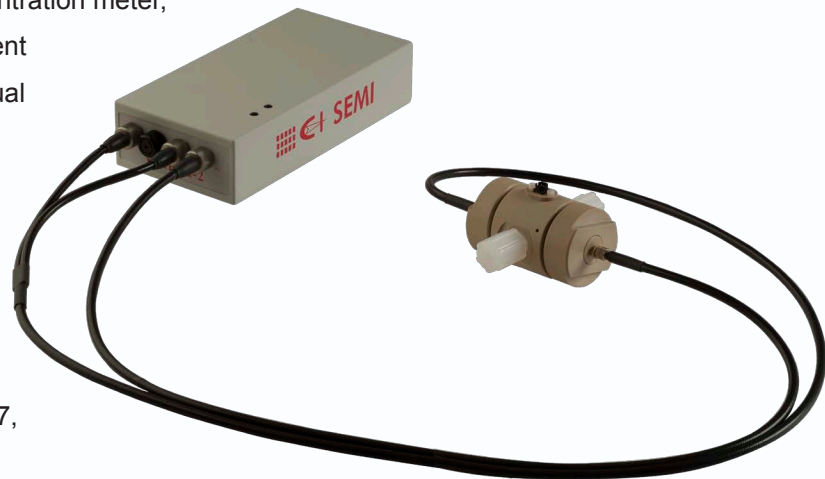
WetRad2

Wet Process Monitoring System

The WetRad2 is an in-line, real-time, non contact concentration meter, using dual wavelength radiometry to enable cost-efficient monitoring of wet process chemicals. With its unique dual wavelength radiometer and by using pre-selected wavelengths, the WetRad2 is optimized to monitor a specific single component within a complex chemical mix.

The WetRad2's compact design is based on CI's renowned and reliable NTM platform which is installed in thousands of process chambers working 24/7, for the monitoring of semiconductor processes.

When integrated into a control system, the WetRad2 enables tighter process control and identifies process excursions before they affect yield.



Features & Benefits

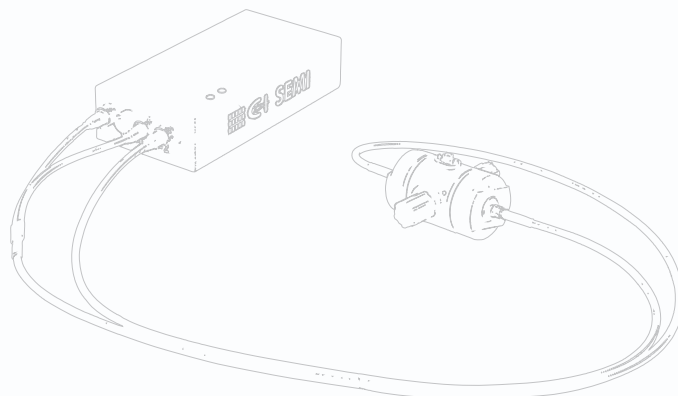
- Concentration monitoring of a specific single component in a complex mix
- Pre-Selectable dual wavelength (UV/VIS/NIR) for optimized performance
- Fiber based sensor for easy installation near the point of measurement
- High stability and repeatability by continuous measurement of internal reference signals
- High accuracy
- Small footprint
- Fast measurement time
- Maintenance free - No light source replacement required
- Simple and durable – 365/24/7 non stop
- Standard 1/4" to 3/4" Flaretek® / Nippon Pillar® fittings for easy installation

(For other fitting types please consult CI)

Typical Applications^(*)

- Ammonia (in a mix)
- Metal Ions in mixed acid etch
- Citric Acid in water
- HF (in a mix)
- Peroxide in water
- Water in solvents
- TMAH in water
- Water in IPA
- Water in Phosphoric Acid

* Other chemistries supported per request



Key Specifications

Measurement method	Fiber-optic Dual Wavelength Radiometer
Wavelength range	UV/VIS/IR
Calibration method	Chemometrics
Time per measurement	Up to 10Hz (Application depended)
Sample conditioning	None required
Temperature compensation	Automatic and continuous
Temperature range (chemicals)	0° to 120°C
Wetted materials	Teflon, Sapphire, Kalrez
Communication	RS232 / Ethernet, Analog and digital I/O
Fiberoptic length	Up to 10m
Size [mm]	Controller: 213x100x46

